SD431.5
A23S54

TIMBER MANAGEMENT PLAN

SITGREAVES WORKING CIRCLE

SITGREAVES National Forest

U. S. DEPARTMENT OF AGRICULTURE • FOREST SERVICE • SOUTHWESTERN REGION

2410
Plans - Sitgreaves

TIMBER MANAGEMENT PLAN

SITGREAVES WORKING CIRCLE

SITGREAVES NATIONAL FOREST
REGION 3

SIXTH PLAN
F.Y. 1967 THROUGH F.Y. 1973

APPROVED: March 9, 1967
(Date)

SD431.5
A23S54

FIFTH REVISION

TIMBER MANAGEMENT PLAN

SITGREAVES WORKING CIRCLE

SITGREAVES NATIONAL FOREST

REGION 3

1966

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Divisions	Forest Initials	Forest Date	Regional Office Initials	Regional Office Date
Timber Management	K.T.P.	7/12/66	MLG	8/24/66
Engineering	CAB	7/13/66	HH	2/20/67
Multiple Use	EGJr HW ~~HWO~~. RMW	7/13/66		
Ranger Districts				
Chevelon	JL	7/13/66		
Heber	CAO	7/13/66		
Lakeside	JWC	7/12/66		
Pinedale	JDS	7/12/66		

REGIONAL OFFICE DIVISION REVIEW AND APPROVAL SHEET

for

FIFTH REVISION

TIMBER MANAGEMENT PLAN

SITGREAVES WORKING CIRCLE

SITGREAVES NATIONAL FOREST

REGION 3

1966

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PREFACE

The timber resource on the Sitgreaves Working Circle requires a drastic renovation. Mortality over the last ten-year period was inventoried at an annual rate of 15.6 million board feet. This registers and emphasizes the current need for an aggressive harvest program.

The annual cutting rate for the next 10-year plan period is set at 48.6 million board feet plus 13.0 million board feet of salvage. It is predicted that 2.6 million board feet of salvage will be harvested in regular sales. This cutting rate will reduce the inventoried sawtimber volume by 52% over the next 20 years if growth and mortality rates do not change.1/

The cutting program on this working circle supports four sawmills and a pulp mill. Their future depends on increased utilization of material now classed as unmerchantable, on increased productivity brought about through cultural programs, on diversification of products produced, and on the number of acres that can be maintained in timber production.

Our ability to maintain maximum sustained yield will, during the next rotation period, be inherently dependent on management decisions made in the next 20 years.

1/ Figure 1. Sitgreaves Working Circle Projections

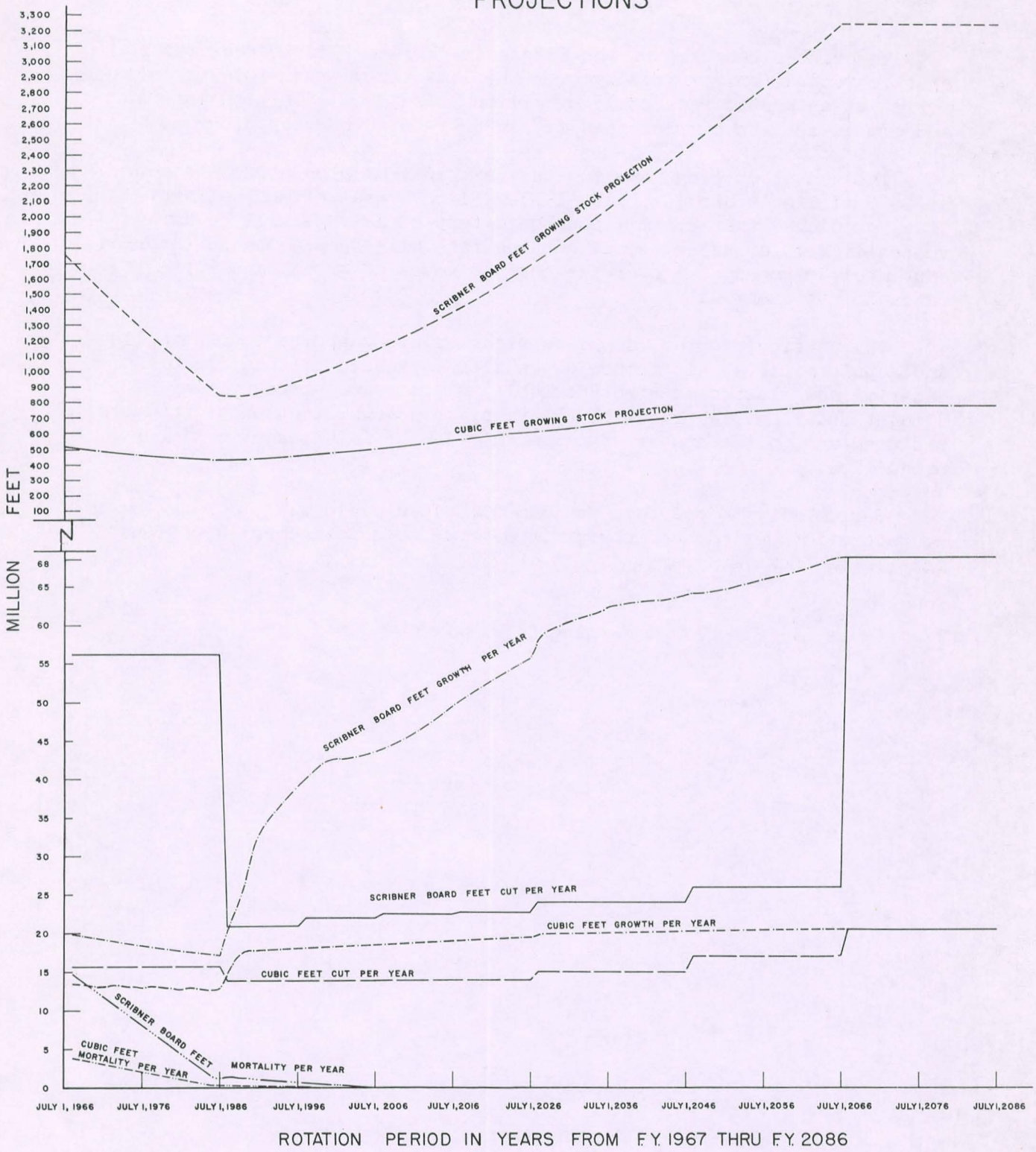

SITGREAVES WORKING CIRCLE
PROJECTIONS
FEET
MILLION
SCRIBNER BOARD FEET GROWING STOCK PROJECTION
CUBIC FEET GROWING STOCK PROJECTION
SCRIBNER BOARD FEET GROWTH PER YEAR
SCRIBNER BOARD FEET CUT PER YEAR
CUBIC FEET GROWTH PER YEAR
CUBIC FEET CUT PER YEAR
SCRIBNER BOARD FEET MORTALITY PER YEAR
CUBIC FEET MORTALITY PER YEAR
JULY 1, 1966
JULY 1, 1976
JULY 1, 1986
JULY 1, 1996
JULY 1, 2006
JULY 1, 2016
JULY 1, 2026
JULY 1, 2036
JULY 1, 2046
JULY 1, 2056
JULY 1, 2066
JULY 1, 2076
JULY 1, 2086
ROTATION PERIOD IN YEARS FROM F.Y. 1967 THRU F.Y. 2086

Figure 1

Highlights of the Sitgreaves Working Circle Timber Management Plan

- During this replanning effort, the three previous working circles on the Sitgreaves Forest are being combined into a single Forest Working Circle.

- Inventory and allowable cut in the previous plans were:

Working Circle	Stocked Operable Acres	Net Volume M Bd. Ft.	Allowable Cut Sawtimber M Bd. Ft.	Allowable Cut Pulpwood M Bd. Ft.	Allowable Cut Pulpwood Cords
Chevelon	94,154	940,631	21,000	-	-
Heber	189,534	1,471,860	27,500	14,458	28,915
Showlow-Pinedale	127,370	406,773	7,700	4,402	8,804
Summary	411,058	2,819,264	56,200	18,860	37,719

- Approximately 50% of the pulpwood allowable cut comes from sawtimber-size trees, i.e., 11.0" through 18.0" d.b.h. On this basis, the total sawtimber-size allowable cut for the Sitgreaves Forest beginning in 1961 has been:

Sawtimber Product	-	56,200 M Bd. Ft.
Pulpwood Product	-	9,430 M Bd. Ft.
Total Sawtimber Size	-	65,630 M Bd. Ft.

- Actual yearly average sawtimber-size cut, 1961-1965, was 60,983 M board feet, 7.08% less than the permitted annual allowable cut.

- Current inventory is:

Stocked Operable Acres	Net Volume M Bd. Ft.
387,519	1,754,184

- Mortality and growth for the past 11 years determined from remeasurement of 344 one-quarter acre growth plots was:

	Annual Average Per Acre	Annual Average Per Working Circle
Mortality	40.28 Bd. Ft.	15,609 M Bd. Ft.
Growth	33.49 Bd. Ft.	-
Ingrowth	18.08 Bd. Ft.	-
All Growth	51.57 Bd. Ft.	19,984 M Bd. Ft.

° Annual average mortality and growth in cubic feet is:

	Per Acre	Per Working Circle
Mortality	10.43 Cu. Ft.	4,042 MCF
Growth	35.00 Cu. Ft.	13,563 MCF

° Currently, industry dependent or partially dependent on timber from this Forest is geared to process from this Forest:

55.5 MM Bd. Ft. of Sawtimber Product
9.4 MM Bd. Ft. of Pulpwood Product
64.9 MM Bd. Ft. Total

° Seven methods of determining an annual allowable cut for this next plan period have been analyzed:

Method	Proposed Allowable Cut Scribner Rule MM Bd.Ft.	MM Cubic Feet
(1) Von Mantel Formula	29.2	9.461
(2) Rotation Age plus component	33.9	10.533
(3) All trees 20" and over d.b.h.	51.9	14.639
(4) All designated 'live remove' trees	53.0	14.863
(5) Removal of all trees needed to place stands in best growing condition	56.2	15.621
(6) Equated to measured growth	20.1	7.414
(7) Equated to forecasted growth	26.4	8.823

° Future sustained growing stock level and allowable cut is predicted to be:

	M Bd. Ft.	M Cu. Ft.
Growing Stock Level	3,239,192	778,006
Allowable Cut	68,725	20,471

This sustained growing stock level can be reached in 100 years if the Forest is managed to attain optimum stocking in each of the even-aged components and if the proper acreage is assigned to each age class.

- The projected sustained growing stock level and allowable cut may be attained in less than 100 years if intensive timber stand improvement practices are carried out and if all planned regeneration acres are reforested to optimum stocking levels without delay.

- The desired 'decision' allowable cut is 56.2 MM board feet and 15.621 MM cubic feet.

- This is a reduction of 9,430 M board feet, or 14% from the current allowable cut.

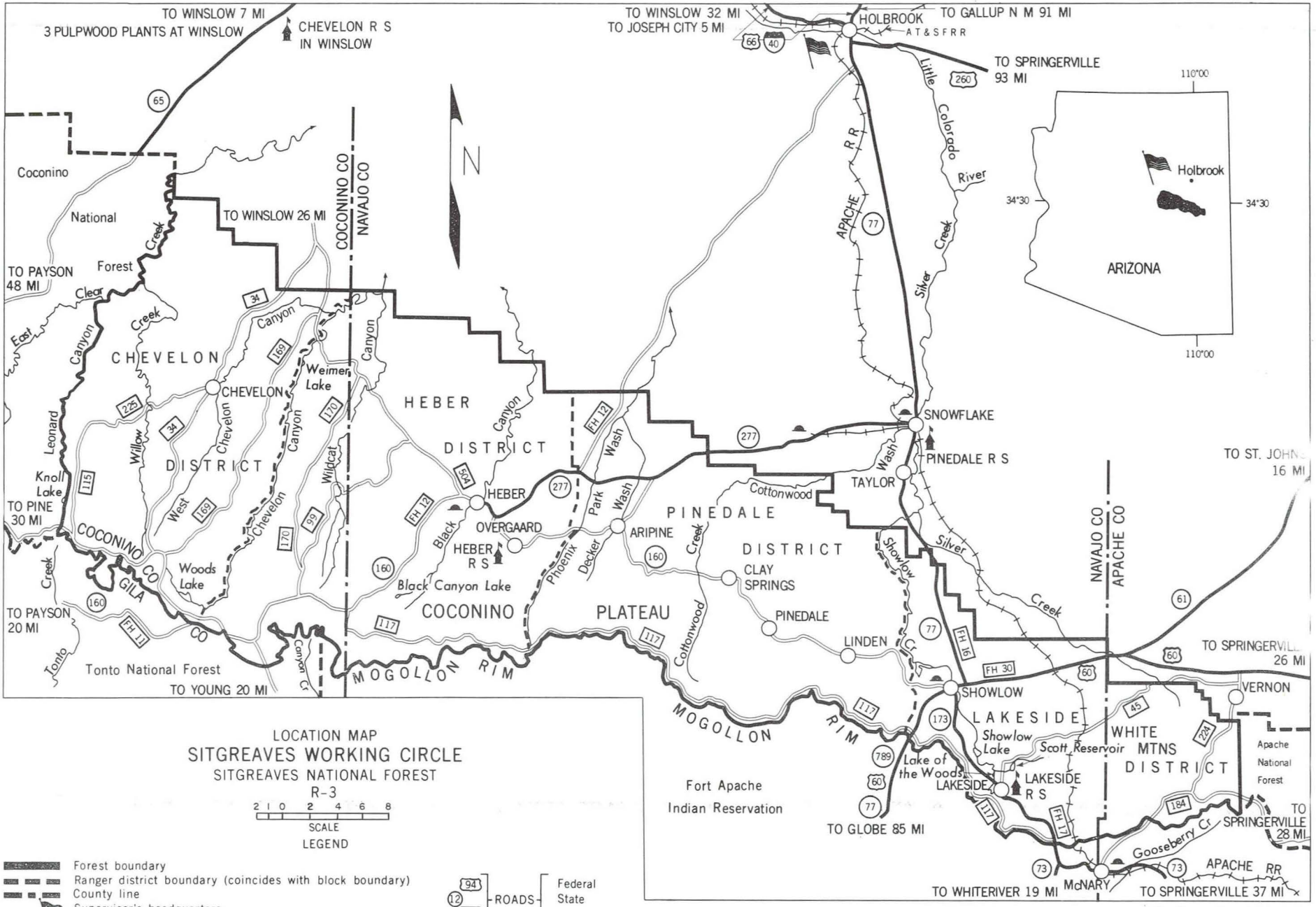
- When the 56.2 MM board feet cut is projected for a full 20-year cutting period, the board feet growing stock is reduced from 1,754.184 MM board feet to a low of 844.933 MM board feet, a 52% reduction. However, the reduction in cubic feet growing stock is only from 520.639 MM cubic feet to a low of 429.604 MM cubic feet, an 18% reduction.

- After the necessary portion of the sawtimber-size growing stock has been harvested this cutting period, it becomes necessary to schedule a major reduction in the allowable cut rate, down to 21.0 MM board feet per year, a 63% reduction. A smaller reduction would be necessary in the total cubic feet allowable cut, from 15.621 MM cubic feet per year down to 13.884 MM cubic feet per year, an 11% reduction.

- If allowable cut were equated to measured growth, i.e., 20.1 MM board feet, the projected unharvested mortality wasted would be 438,700 M board feet more than if the allowable cut were the desired 56.2 MM board feet, an increase of 243%. This would be a loss of approximately $4,466,642 in stumpage return.

- The Administrative Working Group, i.e., the modified cutting area, contains 46,887 operable, stocked acres, 12% of the total operable stocked acres.

- If it is to be made available to industry for harvest, 6.8 MM board feet of the total desired 56.2 MM board feet allowable cut must come from the timber on the Administrative Working Group area.



LOCATION MAP

SITGREAVES WORKING CIRCLE

SITGREAVES NATIONAL FOREST

R-3

2 1 0 2 4 6 8

SCALE

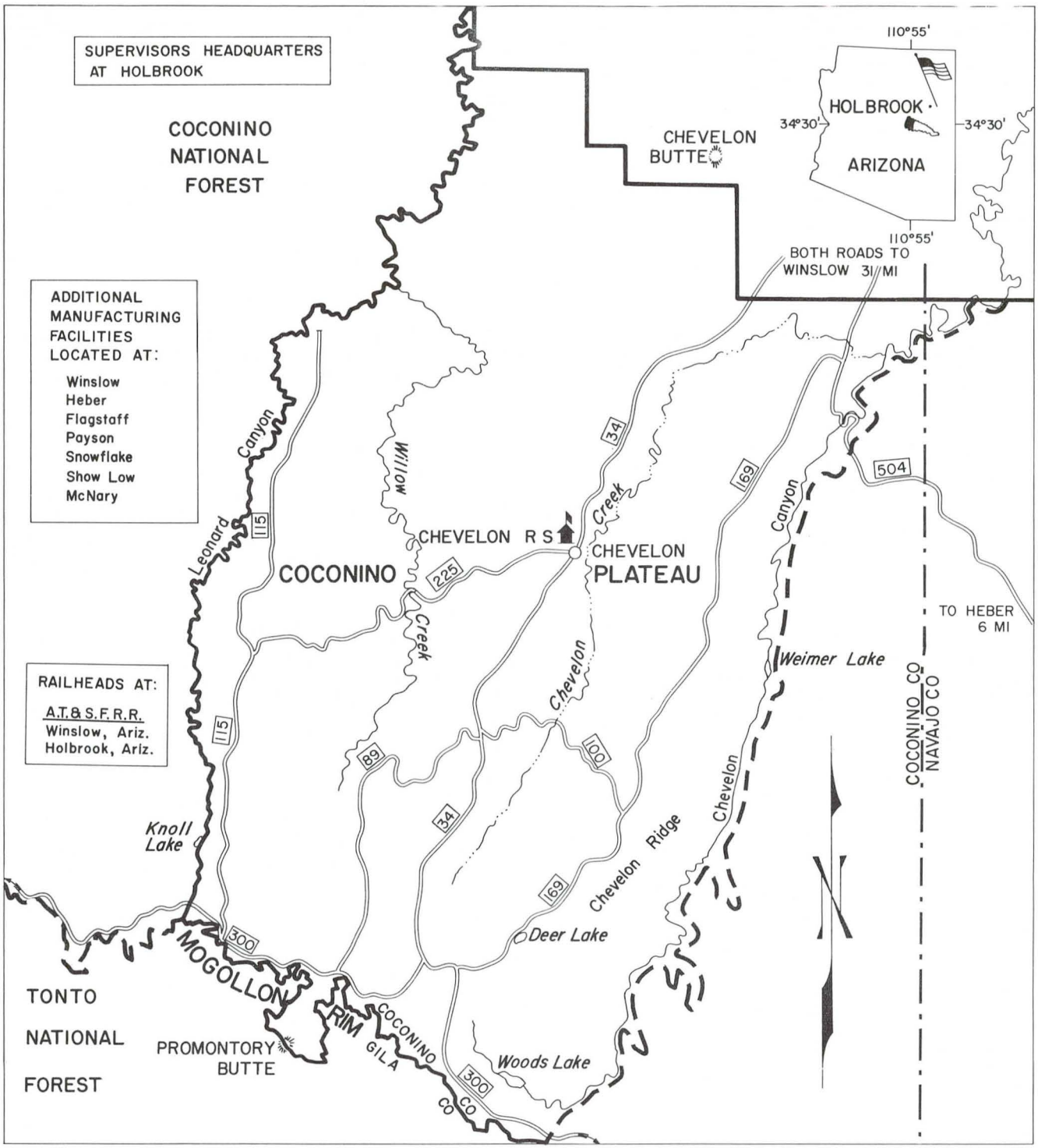
LEGEND

- Forest boundary
- Ranger district boundary (coincides with block boundary)
- County line
- Supervisor's headquarters
- Ranger station
- Working circle and forest boundaries coincide

ROADS — Federal, State, Forest

- Railroad
- Mfg. facilities

C.D. Buell October, 1963



LOCATION MAP

H. Grossman September, 1966

CHEVELON BLOCK

Sitgreaves Working Circle

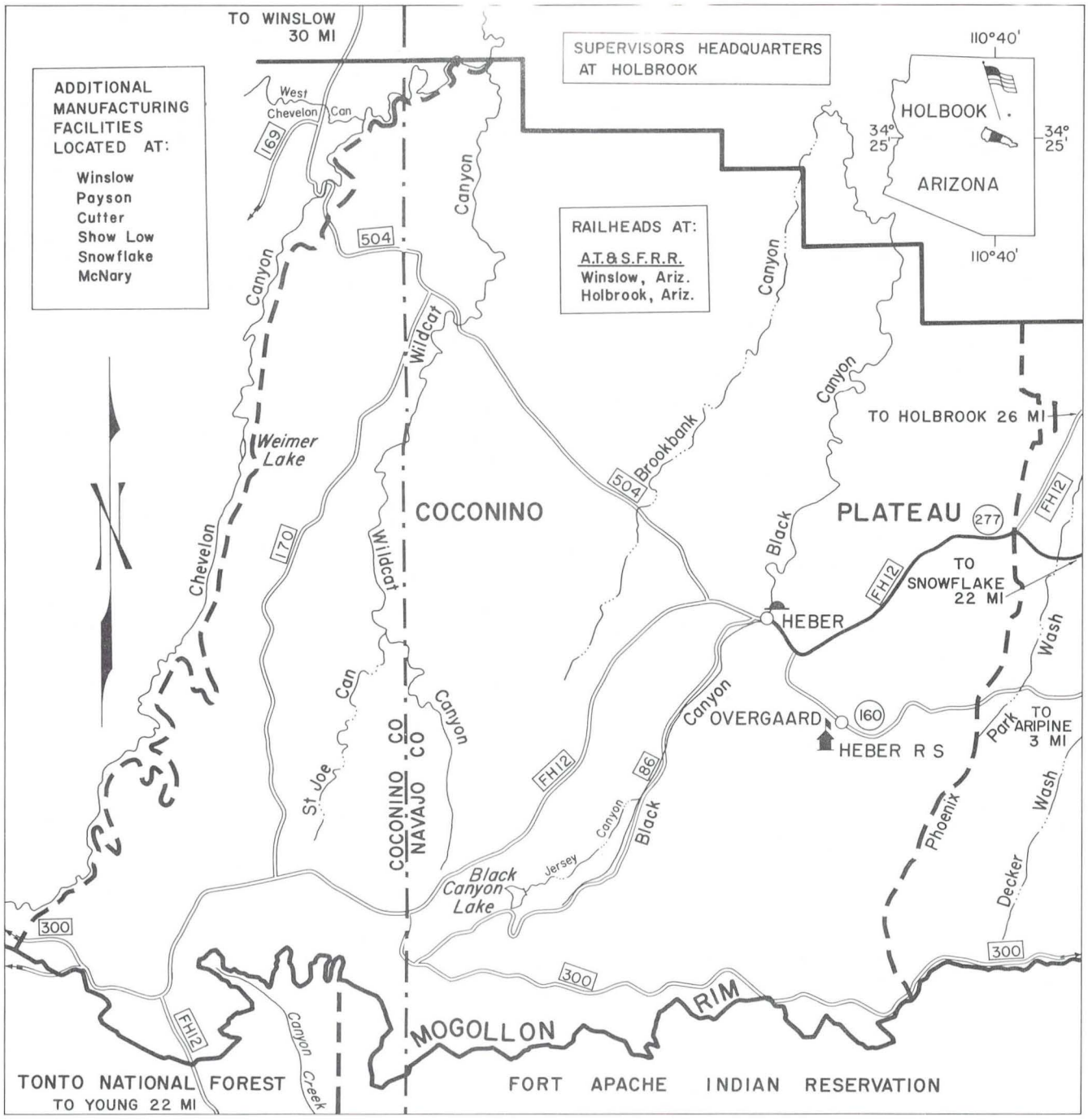
SITGREAVES NATIONAL FOREST

0 2 3 4 5 Miles

SCALE

LEGEND

- Forest boundary (coincides with working circle boundary)
- Ranger district boundary (coincides with block boundary)
- County line
- Supervisors headquarters
- Ranger station
- ROADS: Federal (66), State (10), Forest (423)
- Railroad
- Mfg. facilities



H. Grossman September, 1966

LOCATION MAP

HEBER BLOCK

Sitgreaves Working Circle

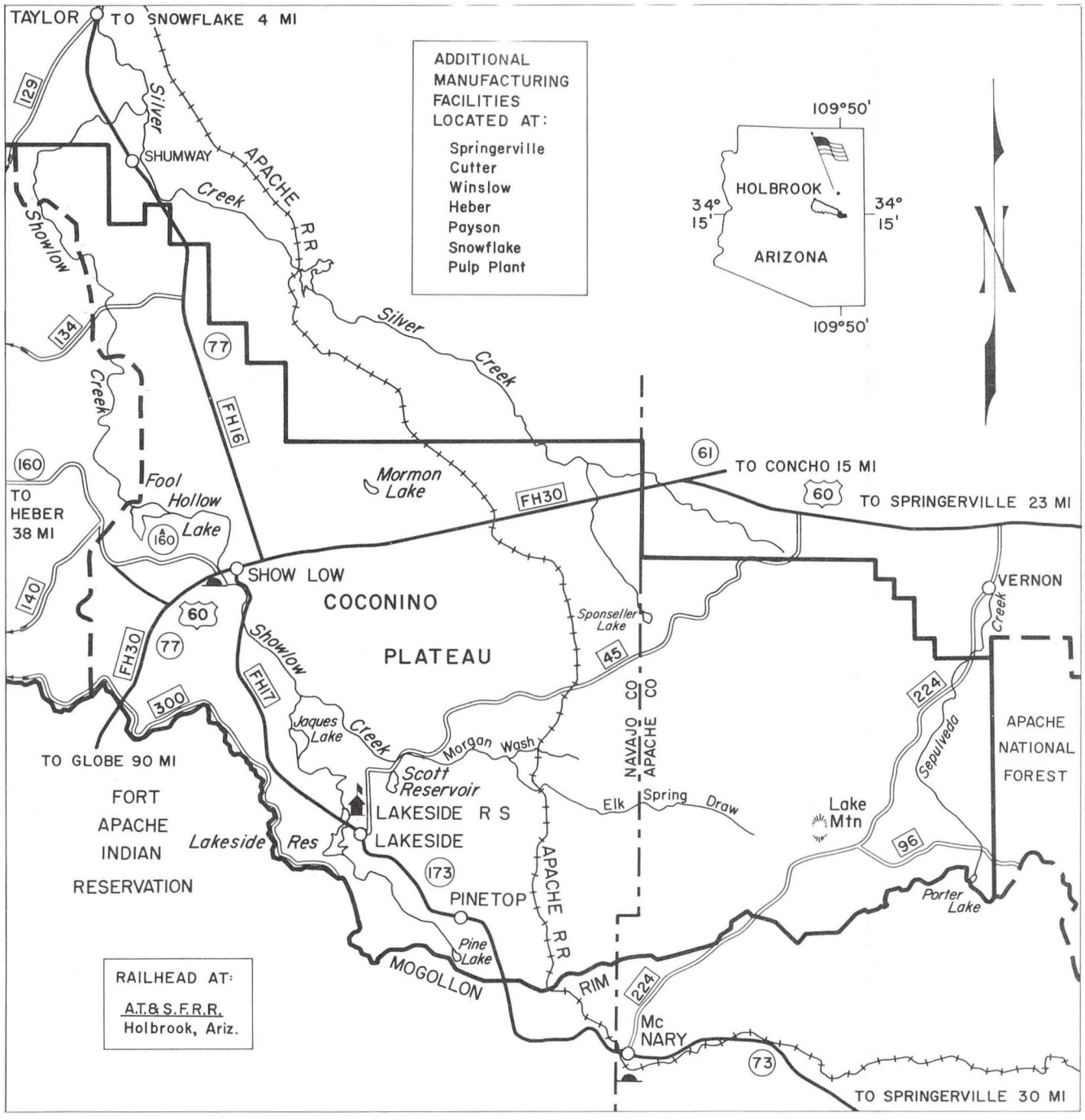
SITGREAVES NATIONAL FOREST

0 1 2 3 4 5 Miles

SCALE

LEGEND

- Forest boundary (coincides with working circle boundary)
- Ranger district boundary (coincides with block boundary)
- County line
- Supervisors headquarters
- Ranger station
- ROADS: Federal (66), State (10), Forest (423)
- Railroad
- Mfg. facilities



H. Grossman September, 1966

LOCATION MAP

LAKESIDE BLOCK

Sitgreaves Working Circle

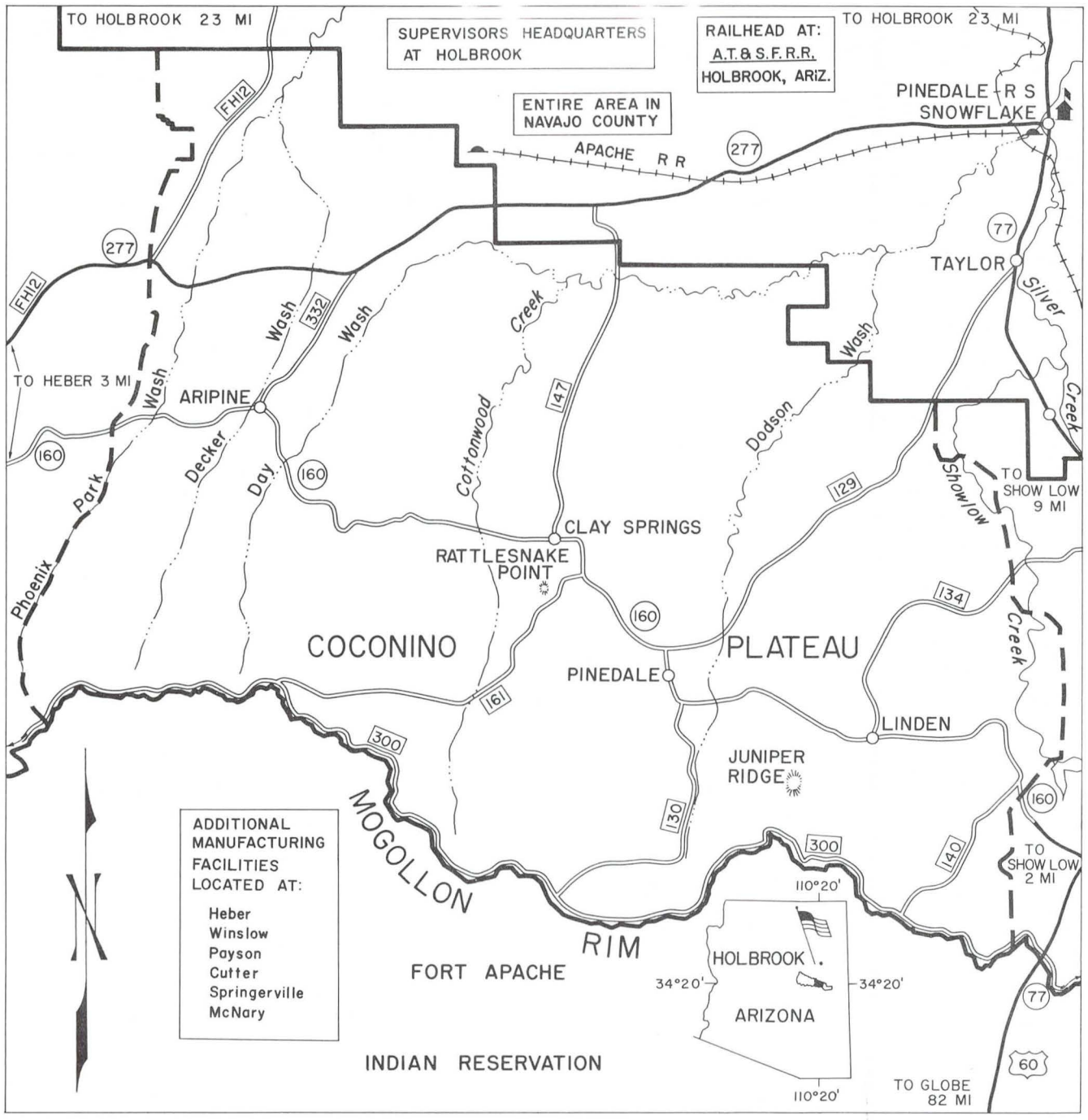
SITGREAVES NATIONAL FOREST

0 1 2 3 4 5 Miles

SCALE

LEGEND

- Forest boundary (coincides with working circle boundary)
- Ranger district boundary (coincides with block boundary)
- County line
- Supervisors headquarters
- Ranger station
- ROADS: Federal, State, Forest
- Railroad
- Mfg. facilities



H. Grossman September, 1966

LOCATION MAP

PINEDALE BLOCK

Sitgreaves Working Circle

SITGREAVES NATIONAL FOREST

1 0 1 2 3 4 5 Miles

SCALE

LEGEND

Forest boundary (coincides with working circle boundary)

Ranger district boundary (coincides with block boundary)

County line

Supervisors headquarters

Ranger station

66 10 423 — ROADS — Federal, State, Forest

Railroad

Mfg. facilities

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II. SUMMARY OF THE PLAN

A. Management Objectives for the Working Circle

Past management plans prescribed cutting practices which were designed to capture the mortality of the Working Circle. These plans were followed throughout the initial cut but mortality was greater than was expected. To provide the maximum yield from this Working Circle in the future, more intensive management of each acre will be necessary.

1. The principle objective of management of the commercial forest land will be to obtain, so far as feasible, continuous production with due consideration given to condition of the stands covered by this plan. Both production and harvest will be in accordance with the principles of multiple use management.

2. The Administrative Working Group will be managed to protect, improve, harvest and maintain stands of timber to achieve the conditions described in multiple use plans and recreation prescriptions.

3. Even-aged management will be applied with cutting controlled by area with volume checks.

4. The full allowable cut for the Working Circle will be made available to wood-using industries.

5. Prompt and complete regeneration will be obtained on planned regeneration areas.

6. Burned areas and other nonstocked or poorly stocked areas (of a size that can be reforested economically) will be promptly reforested.

7. Stand prescriptions will be designed to obtain suitable management of the younger age classes (1-100 year span) according to the site quality of the individual stand.

8. Ordinarily, disease will be controlled in stands through cutting practices.

9. Insect damage will be kept at a minimum through increased utilization and, if necessary, through direct control methods.

10. The density of under-stocked stands will be increased to optimum stocking through growth, planting, or direct seeding.

11. The quality and genetic characteristics of the stands will be improved through cultural treatment, including quality seed selection and intermediate cuts.

12. Compartment examinations will be completed and stand prescriptions will be prepared for all of the timbered compartments prior to the next revision of this plan.

B. AREA AND VOLUME SUMMARIES

1. Ownership Status

TABLE I

Ownership Class	All Lands Acres	COMMERCIAL FOREST LANDS			
		Acres	Net Volume, Mbf		Net Volume M Cu. Ft. 1/
			Scribner Rule	International ¼" Rule	
National Forest	778,698	422,364	1,817,126	2,089,695	537,283
Aztec Private	45,152	36,430	69,461	79,880	40,012
Other Private	60,698	10,479	30,592	35,181	10,073
Sub-Total, Softwoods	884,548	469,273	1,917,179	2,204,756	587,368
Aspen Type Only - N.F.	-----	1,358 2/	17,803	20,473	5,520
TOTAL	884,548	470,631	1,934,982	2,225,229	592,888

1/ Includes seedling and saplings 2/ Aspen Volumes are taken from entire Forest Area

2. Ownership by County and by Block (District)
(As of June 30, 1964)

TABLE 2

Subdivision	All Ownership Acres	Net National Forest Acres	Commercial Forest Lands - N.F. Only 1/			
			National Forest Only Acres	Net Volume, Mbf		Net Volume M Cu.Ft. 2/
				Scribner Rule	International ¼" Rule	
Apache County						
Lakeside Block	48,886	45,331	33,589	140,667	161,767	41,960
Coconino County						
Chevelon Block	211,909	184,373	131,239	686,254	789,195	187,881
Heber Block	76,856	71,541	61,239	289,024	332,376	83,870
Sub-Total	288,765	255,914	192,478	975,278	1,121,571	271,751
Navajo County						
Chevelon Block	778	778	-------	-------	---------	--------
Heber Block	203,533	185,429	88,412	365,260	420,048	109,318
Lakeside Block	111,563	86,785	32,979	116,202	133,632	36,546
Pinedale Block	231,023	204,461	76,264	237,522	273,150	83,228
Sub-Total	546,897	477,453	197,655	718,984	826,830	229,092
TOTAL	884,548	778,698	423,722	1,834,929	2,110,168	542,803

1/ Includes Aspen Volumes and Acres 2/ Includes seedling and saplings.

3. Other Ownerships By County And By Block (District)
(As of June 30, 1964)

TABLE 3

Subdivision	All Lands Acres	COMMERCIAL FOREST LANDS - PRIVATE ONLY			
		Acres	Net Volume, Mbf		Net Volume
			Scribner Rule	International 1/4" Rule	M Cu. Ft. 1/
Apache County					
Lakeside Block					
Other Private	3,555	0	------	------	------
Coconino County					
Chevelon Block					
Aztec Private	24,990	23,040	43,930	50,520	25,305
Other Private	2,546	402	1,174	1,349	386
Sub-Total	27,536	23,442	45,104	51,869	25,691
Heber Block					
Aztec Private	3,979	3,821	7,286	8,378	4,197
Other Private	1,336	1,183	3,454	3,972	1,137
Sub-Total	5,315	5,004	10,740	12,350	5,334
County Sub-Total	32,851	28,446	55,844	64,219	31,025
Navajo County					
Heber Block					
Aztec Private	14,389	9,569	18,245	20,982	10,510
Other Private	3,715	0	-------	------	------
Sub-Total	18,104	9,569	18,245	20,982	10,510
Lakeside Block					
Other Private	24,778	5,278	15,408	17,720	5,074
Pinedale Block					
Aztec Private	1,794	0	------	------	------
Other Private	24,768	3,616	10,556	12,140	3,476
Sub-Total	26,562	3,616	10,556	12,140	3,476
County Sub-Total	69,444	18,463	44,209	50,842	19,060
Aztec Private Sub-Total	45,152	36,430	69,461	79,880	40,012
Other Private Sub-Total	60,698	10,479	30,592	35,181	10,073
TOTAL	105,850	46,901	100,053	115,061	50,085

1/ Includes seedlings and saplings

4. Commercial Forest Land, National Forest Only

TABLE 4

Stand Size or Condition Class	Acres	Sawtimber 11.0" and over DBH			Pole Timber 5 - 10.9" DBH	Total
		Scribner Rule - Bd. Ft.	International ¼" Rule-Bd.Ft.	Cubic Ft.	Cu. Ft.	Cu. Ft.[1/]
		Net Volumes				
Operable Areas						
Site I						
Cutover Sawtimber	6,590	61,209,172	70,390,558	13,062,171	310,059	13,372,230
Virgin Sawtimber	2,507	27,729,175	31,888,539	5,590,033	205,298	5,795,331
Site II						
Cutover Sawtimber	163,334	937,892,745	1,078,573,305	202,578,393	33,973,963	236,552,356
Virgin Sawtimber	34,834	282,862,848	325,292,437	65,639,190	8,993,125	74,632,315
Cutover Pole Timber	92,880	177,094,296	203,658,904	43,213,349	56,026,145	99,239,494
Site III						
Cutover Sawtimber	82,360	240,440,637	276,510,403	63,028,920	14,248,125	77,277,045
Virgin Sawtimber	5,014	26,954,763	30,998,002	6,961,187	360,206	7,321,393
Aspen	1,358	(No Volume)				
Non-stocked	17,834	(No Volume)				
Sub-Total, Operable	406,711	1,754,183,636	2,017,312,148	400,073,243	114,116,921	514,190,164
Inoperable Areas						
Sawtimber	17,011	62,942,323	72,383,208	14,532,744	2,083,210	16,615,954
Total Commercial	423,722	1,817,125,959	2,089,695,356	414,605,987	116,200,131	530,806,118

1/ Does not include seedlings and saplings.

5. OTHER FOREST LANDS, NATIONAL FOREST ONLY

TABLE 5

Land Class or Condition	Acres
Woodland	310,922
Water	1,273
Grassland	42,781
TOTAL, Other Forest Lands	354,976
TOTAL, Working Circle	778,698

6. Aspen Volumes

TABLE 6

Forest Type or Working Group	Acres[1/]	Sawtimber 11.0" and over D.B.H.			Pole Timber 5 - 10.9" DBH	Total Cubic Feet[2/]
		Scribner Rule-Bd. Ft.	International 1/4" Rule-Bd. Ft.	Cubic Feet	Cu. Ft.	
		Net Volumes				
Cutover Ponderosa Pine	151,546[1/]	50,921	58,559	9,093	6,062	15,155
Virgin Ponderosa Pine	2,507[1/]	8,694,902	9,999,137	1,552,661	1,514,779	3,067,440
Cutover Mixed-conifer	10,778[1/]	4,346,899	4,998,934	776,232	--------	776,232
Aspen	1,358	4,709,878	5,416,364	841,047	820,533	1,661,580
TOTAL	166,189	17,802,600	20,472,994	3,179,033	2,341,374	5,520,407
Technical Working Group	144,571[1/]	6,638,157	7,633,879	1,185,386	786,239	1,971,625
Administrative Working Group	21,618[1/]	11,164,443	12,839,115	1,993,647	1,555,135	3,548,782
TOTAL	166,189	17,802,600	20,472,994	3,179,033	2,341,374	5,520,407

1/ Acres included in tables 1,2,4,7,8, and 9.

2/ No volumes were recorded for seedlings and saplings.

7. COMMERCIAL FOREST LAND BY FOREST TYPE AND SITE CLASS, NATIONAL FOREST ONLY

TABLE 7

Site Class and Forest Type	Acres	Sawtimber 11.0" and over D.B.H.			Pole Timber 5-10.9" D.B.H.	TOTAL 2/
		Scribner Rule-Bd.Ft.	International ¼" Rule-Bd.Ft.	Cubic Feet	Cu. Ft.	Cu. Ft.
Operable Areas		----------	----------	Net Volumes	----------	----------
Site I						
Ponderosa Pine	9,097	88,938,347	102,279,097	18,652,204	515,357	19,167,561
Site II						
Ponderosa Pine	273,450	1,213,292,047	1,395,283,196	266,446.542	91,898,505	358,345,047
Mixed-Conifer	17,598	184,557,842	212,241,450	44,984,390	7,094,728	52,079,118
Sub-Total	291,048	1,397,849,889	1,607,524,646	311,430,932	98,993,233	410,424,165
Site III						
Ponderosa Pine	87,374	267,395,400	307,508,405	69,990,107	14,608,331	84,598,438
Summary Operable						
Ponderosa Pine	369,921	1,569,625,794	1,805,070,698	355,088,853	107,022,193	462,111,046
Mixed-Conifer	17,598 1/	184,557,842	212,241,450	44,984,390	7,094,728	52,079,118
Sub-Total, Operable	387,519	1,754,183,636	2,017,312,148	400,073,243	114,116,921	514,190,164
Inoperable Areas						
Ponderosa Pine	12,429	44,645,906	51,342,322	10,370,854	1,676,813	12,047,667
Mixed-Conifer	4,582	18,296,417	20,040,886	4,161,890	406,397	4,568,287
Sub-Total Inoperable	17,011	62,942,323	72,383,208	14,532,744	2,083,210	16,615,954
Summary-Commercial						
Ponderosa Pine	382,350	1,614,271,700	1,856,413,020	365,459,707	108,699,006	474,158,713
Mixed-Conifer	22,180	202,854,259	233,282,336	49,146,280	7,501,125	56,647,405
Total Commercial	404,530	1,817,125,959	2,089,695,356	414,605,987	116,200,131	530,806,118

1/ Does not include 17,834 acres of nonstocked operable commercial Forest Land or 1,358 acres of aspen.
2/ Does not include seedlings and saplings.

8. Operable Commercial Forest Lands by Working Group and Block (District), and Forest Type, National Forest Only

Table 8

Block, Working Group, and Forest Type	Acres	Sawtimber 11.0" and over D.B.H. Scribner Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. International 1/4" Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. Cu. Ft.	Poletimber 5-10" DBH Cu. Ft.	Total 2/ Cu. Ft.
		Net Volumes				
Chevelon Block						
Technical W.G.						
Ponderosa Pine	85,942	465,284,841	535,076,978	104,874,710	20,272,272	125,146,982
Mixed-Conifer	8,703	94,311,704	108,458,457	22,322,865	3,587,626	25,910,491
Sub-Total	94,645	559,596,545	643,535,435	127,197,575	23,859,898	151,057,473
Non-Stocked	9,956					
Administrative W.G.						
Ponderosa Pine	11,083	51,801,550	59,575,698	11,261,580	3,432,624	14,694,204
Mixed-Conifer	1,457	14,866,004	17,095,891	3,782,912	506,358	4,289,270
Sub-Total	12,540	66,667,554	76,671,589	15,044,492	3,938,982	18,983,474
Non-Stocked	369					
Sub-Total Chevelon	107,185	626,264,099	720,207,024	142,242,067	27,798,880	170,040,947
Non-Stocked	10,325					
Heber Block						
Technical W.G.						
Ponderosa Pine	116,902	508,951,410	585,293,082	114,218,485	30,050,362	144,268,847
Mixed-Conifer	2,480	24,800,536	28,520,607	6,007,760	1,277,930	7,285,690
Sub-Total	119,382	533,751,946	613,813,689	120,226,245	31,328,292	151,554,537
Non-Stocked	2,384					
Administrative W.G.						
Ponderosa Pine	19,803	64,629,479	74,323,856	14,747,040	8,722,407	23,469,447
Mixed-Conifer	3,703	37,780,760	43,447,842	9,613,968	1,286,867	10,900,835
Sub-Total	23,506	102,410,239	117,771,698	24,361,008	10,009,274	34,370,282
Non-Stocked	328					
Sub-Total, Heber	142,888	636,162,185	731,585,387	144,587,253	41,337,566	185,924,819
Non-Stocked	2,712					
Lakeside Block						
Technical W.G.						
Ponderosa Pine	54,963	213,467,663	245,487,390	48,156,553	16,221,174	64,377,727
Mixed-Conifer	870	8,873,421	10,204,427	2,257,995	302,242	2,560,237
Sub-Total	55,833	222,341,084	255,691,817	50,414,548	16,523,416	66,937,964
Non-Stocked	1,910					
Administrative W.G.						
Ponderosa Pine	7,417	27,974,765	32,170,933	6,409,914	2,058,916	8,468,830
Mixed-conifer	385	3,925,417	4,514,226	998,890	133,705	1,132,595
Sub-Total	7,802	31,900,182	36,685,159	7,408,804	2,192,621	9,601,425
Non-Stocked	434					
Sub-Total, Lakeside	63,635	254,241,266	292,376,976	57,823,352	18,716,037	76,539,389
Non-Stocked	2,344					
Pinedale Block						
Technical W.G.						
Ponderosa Pine	70,772	228,596,873	262,885,672	53,339,120	24,978,491	78,317,611
Mixed-Conifer	-	-	-	-	-	-
Sub-Total	70,772	228,596,873	262,885,672	53,339,120	24,978,491	78,317,611
Non-Stocked	2,249					
Administrative W.G.						
Ponderosa Pine	3,039	8,919,213	10,257,089	2,081,451	1,285,947	3,367,398
Mixed-Conifer	-	-	-	-	-	-
Sub-Total	3,039	8,919,213	10,257,089	2,081,451	1,285,947	3,367,398
Non-Stocked	204					
Sub-Total, Pinedale	73,811	237,516,086	273,142,761	55,420,571	26,264,438	81,685,009
Non-Stocked	2,453					
Working Circle Summary						
Technical W.G. 1/						
Ponderosa Pine	328,579	1,416,300,787	1,628,743,122	320,588,868	91,522,299	412,111,167
Mixed-Conifer	12,053	127,985,661	147,183,491	30,588,620	5,167,798	35,756,418
Sub-Total	340,632	1,544,286,448	1,775,926,613	351,177,488	96,690,097	447,867,585
Non-Stocked	16,499					
Administrative W.G.						
Ponderosa Pine	41,342	153,325,007	176,327,576	34,499,985	15,499,894	49,999,879
Mixed-Conifer	5,545	56,572,181	65,057,959	14,395,770	1,926,930	16,322,700
Sub-Total	46,887	209,897,188	241,385,535	48,895,755	17,426,824	66,322,579
Non-Stocked	1,335					
Total Working Circle	387,519	1,754,183,636	2,017,312,148	400,073,243	114,116,921	514,190,164
Non-Stocked	17,834					

1/ Does not include 1,358 acres of Aspen

2/ Does not include seedlings and saplings.

9. Operable Commercial Forest Land Volumes by Size Grouping[2/] and Block (District), National Forest Only

Table 9

Block and Size Grouping	Sawtimber 11.0" and over DBH: Scribner Rule Bd. Ft.	Sawtimber 11.0" and over DBH: International 1/4" Rule Bd. Ft.	Sawtimber 11.0" and over DBH: Cubic Feet	Poletimber 5.0 to 10.9" D.B.H. Cu. Ft.	Seedlings & Saplings 4.9" DBH & under-Cu. Ft.	Total Cu. Ft.
	Net Volumes					
Chevelon Block - 107,185 Acres						
Seedlings & Saplings	-	-	-	-	1,404,410	1,404,410
Small Poles	-	-	-	16,598,454	-	16,598,454
Large Poles	-	-	-	11,200,426	-	11,200,426
Small sawtimber	96,803,708	111,323,908	29,559,069	-	-	29,559,069
Medium sawtimber	125,594,569	144,433,677	31,525,608	-	-	31,525,608
Large sawtimber	134,712,315	154,922,803	29,933,102	-	-	29,933,102
Oversize sawtimber	269,153,507	309,526,636	51,224,288	-	-	51,224,288
Sub-Total, Chevelon	626,264,099	720,207,024	142,242,067	27,798,880	1,404,410	171,445,357
Heber Block - 142,888 Acres						
Seedlings & Saplings	-	-	-	-	2,374,906	2,374,906
Small Poles	-	-	-	24,531,621	-	24,531,621
Large Poles	-	-	-	16,805,945	-	16,805,945
Small Sawtimber	115,477,776	132,798,962	35,625,445	-	-	35,625,445
Medium Sawtimber	145,265,693	167,055,486	36,403,010	-	-	36,403,010
Large Sawtimber	130,382,963	149,939,856	29,228,667	-	-	29,228,667
Oversize Sawtimber	245,035,753	281,791,083	43,330,131	-	-	43,330,131
Sub-Total, Heber	636,162,185	731,585,387	144,587,253	41,337,566	2,374,906	188,299,725
Lakeside Block - 63,635 Acres						
Seedlings & Saplings	-	-	-	-	1,128,379	1,128,379
Small Poles	-	-	-	11,179,924	-	11,179,924
Large Poles	-	-	-	7,536,113	-	7,536,113
Small Sawtimber	50,404,702	57,965,209	15,473,359	-	-	15,473,359
Medium Sawtimber	61,906,540	71,192,508	15,519,064	-	-	15,519,064
Large Sawtimber	51,535,147	59,265,181	11,600,534	-	-	11,600,534
Oversize Sawtimber	90,394,877	103,954,078	15,230,395	-	-	15,230,395
Sub-Total, Lakeside	254,241,266	292,376,976	57,823,352	18,716,037	1,128,379	77,667,768
Pinedale Block - 73,811 Acres						
Seedlings & Saplings	-	-	-	-	1,540,877	1,540,877
Small Poles	-	-	-	15,891,967	-	15,891,967
Large Poles	-	-	-	10,372,471	-	10,372,471
Small Sawtimber	59,165,276	68,039,999	18,048,791	-	-	18,048,791
Medium Sawtimber	61,762,540	71,027,002	15,226,720	-	-	15,226,720
Large Sawtimber	42,947,020	49,388,919	9,644,722	-	-	9,644,722
Oversize Sawtimber	73,641,250	84,686,841	12,500,338	-	-	12,500,338
Sub-Total, Pinedale	237,516,086	273,142,761	55,420,571	26,264,438	1,540,877	83,225,886
Working Circle Totals						
Technical W.G. - 340,632 Acres						
Seedlings & Saplings	-	-	-		5,569,431	5,569,431
Small Poles	-	-	-	58,239,653	-	58,239,653
Large Poles	-	-	-	38,450,444	-	38,450,444
Small Sawtimber	288,404,973	331,664,710	87,558,324	-	-	87,558,324
Medium Sawtimber	354,337,528	407,488,061	88,864,216	-	-	88,864,216
Large Sawtimber	325,800,767	374,669,709	72,809,939	-	-	72,809,939
Oversize Sawtimber	575,743,180	662,104,133	101,945,009	-	-	101,945,009
Sub-Total, T.W.G.	1,544,286,448	1,775,926,613	351,177,488	96,690,097	5,569,431	453,437,016
Administrative W.G. - 46,887 Acres						
Seedlings & Saplings	-	-	-	-	879,141	879,141
Small poles	-	-	-	9,962,313	-	9,962,313
Large Poles	-	-	-	7,464,511	-	7,464,511
Small Sawtimber	33,446,489	38,463,368	11,148,340	-	-	11,148,340
Medium Sawtimber	40,191,814	46,220,612	9,810,186	-	-	9,810,186
Large Sawtimber	33,776,678	38,847,050	7,597,086	-	-	7,597,086
Oversize Sawtimber	102,482,207	117,854,505	20,340,143	-		20,340,143
Sub-Total, A.W.G.	209,897,188	241,385,535	48,895,755	17,426,824	879,141	67,201,720
Working Circle Summary - 387,519[1/] Acres						
Seedlings and Saplings	-	-	-	-	6,448,572	6,448,572
Small Poles	-	-	-	68,201,966	-	68,201,966
Large Poles	-	-	-	45,914,955	-	45,914,955
Small Sawtimber	321,851,462	370,128,078	98,706,664	-	-	98,706,664
Medium Sawtimber	394,529,342	453,708,673	98,674,402	-	-	98,674,402
Large Sawtimber	359,577,445	413,516,759	80,407,025	-	-	80,407,025
Oversize Sawtimber	678,225,387	779,958,638	122,285,152	-	-	122,285,152
TOTAL, Working Circle	1,754,183,636	2,017,312,148	400,073,243	114,116,921	6,448,572	520,638,736

1/ Does not include 17,834 acres of nonstocked operable commercial forest land or 1,358 acres of Aspen.

2/ Size Grouping Equivalents used for this Plan are:

	Descriptive Term	D.B.H. Range	Approximate Age Class
1.	Seedlings	No. D.B.H.	1 to 20 years old
2.	Saplings	0.1" to 4.9"	1 to 20 years old
3.	Small Poles	5.0" to 8.9"	21 to 40 years old
4.	Large Poles	9.0" to 10.9"	41 to 60 years old
5.	Small Sawtimber	11.0" to 15.9"	61 to 80 years old
6.	Medium Sawtimber	16.0" to 19.9"	81 to 100 years old
7.	Large Sawtimber	20.0" to 23.9"	101 to 120 years old
8.	Oversize Sawtimber	24.0" to upper limit	121 and over years old

C. GROWTH

1. PERIODIC ANNUAL INCREMENT

TABLE 10

Growth as derived from basal area stocking rates						
	TOTAL PER TYPE			WEIGHTED PER ACRE AVERAGES		
	Net MM Board Feet			Net Board Feet		
Forest Type	Scribner Rule	International ¼" Rule	Net MM Cubic feet	Scribner Rule	International ¼" Rule	Net Cubic feet
Operable Areas						
Ponderosa Pine	24.148	44.439	12.865	65	120	35
Mixed-Conifer	2.278	3.424	0.684	129	195	39
By Working Circle	26.426	47.863	13.549	68	124	35
Inoperable Areas						
Ponderosa Pine	1.331	1.978	0.396	107	159	32
Mixed-Conifer	0.642	0.899	0.162	140	196	35
By Working Circle	1.973	2.877	0.558	116	169	33
All Areas Working Circle	28.399	50.740	14.107	70	125	35
Periodic growth as derived from remeasurement of 344 1/4-acre growth plots						
Operable Areas (388,877 Acres)	20.054	No Data	No Data	51.57	No Data	No Data
Inoperable Areas (17,011 Acres)	0.878	No Data	No Data	51.57	No Data	No Data
Total Working Circle	20.932	No Data	No Data	51.57	No Data	No Data

2. MINIMUM POTENTIAL MEAN ANNUAL INCREMENT

TABLE 11

Forest Type	TOTAL PER TYPE			WEIGHTED PER ACRE AVERAGES		
	Net MM Board Feet			Net Board Feet		
	Scribner Rule	International ¼" Rule	Net MM Cubic feet	Scribner Rule	International ¼" Rule	Net Cubic feet
Operable Areas						
Ponderosa Pine	42.196	68.400	15.193	109	176	39
Mixed-Conifer	2.573	3.801	0.738	136	201	39
By Working Circle	44.769	72.201	15.931	110	178	39
Inoperable Areas						
Ponderosa Pine	1.667	2.428	0.463	134	195	37
Mixed-Conifer	0.642	0.900	0.162	140	196	35
By Working Circle	2.309	3.328	0.625	136	196	37
All Areas Working Circle	47.078	75.529	16.556	111	178	39

D. Regulation

Table 12

Item		Technical Working Group	Administrative Working Group	Summary
1. Control 1/		Area	Area	
2. Cutting Period				
Sawtimber		20 Years	20 Years	
Pulpwood		10 Years	10 Years	
3. Rotation Age		110 Years	190 Years	
4. Rotation Period		120 Years	200 Years	
5. Acres to be Entered or Cut Per Year	Site I	372	152	524
	Site II	13,198	2,022	15,220
	Site III	4,287	305	4,592
	Summary	17,857	2,479	20,336
6. Acres to be Regenerated Per Year (Removal Cutting)	Site I	62	15	77
	Site II	1,811	192	2,003
	Site III	714	31	745
	Summary	2,587	238	2,825
7. Acres to be Regenerated Per Cutting Period	Site I	1,237	303	1,540
	Site II	36,232	3,845	40,077
	Site III	14,289	610	14,899
	Summary	51,758	4,758	56,516
8. Acres to be Examined or cut for Pulpwood Per Year 2/	Site I	742	303	1,045
	Site II	26,398	4,045	30,443
	Site III	8,573	610	9,183
	Summary	35,713	4,958	40,671
9. Acres to Receive Preparatory Cutting Each Year	Site I	310	137	447
	Site II	11,387	1,830	13,217
	Site III	3,573	274	3,847
	Summary	15,270	2,241	17,511

1/ Area control with Volume Checks.

2/ This acreage is not a part of the control for area regulation.

E. Allowable Cut and Cutting Limitations

1. Available Annual Cut for this Period, F.Y. 1966 through F.Y. 1973

FOREST TOTAL

Table 13

Item		CUTTING METHOD						
		Intermediate	Salvage	Regeneration: Group, Patch, Strip, Stand	Regeneration: Shelterwood or Seed Tree: Preparatory & Seed 1/	Regeneration: Shelterwood or Seed Tree: Removal 2/	Selection	Total
Regulated area to examine (Acres)		-	-	-	-	-	-	40,671
Average No. of Compartments to examine (No. of Subdivided Comp.)		-	-	-	-	-	-	51
Est. Average area to cut (Acres)	Not Reg.	40,671 3/	367,183 3/	-	-	-	-	407,854 3/
	Area Reg.	-	-	-	17,511	2,825	-	20,336
ESTIMATED AVERAGE YIELD								
TECHNICAL WORKING GROUP								
A. SAWTIMBER - (16.0" and over d.b.h.-includes 11.0" through 15.9" d.b.h. with Grade IV or better butt log)								
Scribner rule MMBM		-	-	-	31.248	11.489	-	42.737
International ¼"Rule MMBM		-	-	-	35.935	13.213	-	49.148
MM Cubic Feet		-	-	-	5.581	2.052	-	7.633
B. 4/ SAWTIMBER -(11.0" through 15.9" d.b.h. with no butt log better than Grade V)								
Scribner rule MMBM		-	-	-	6.663	-	-	6.663
International ¼" Rule MMBM		-	-	-	7.662	-	-	7.662
MM Cubic Feet		-	-	-	1.190	-	-	1.190
ADMINISTRATIVE WORKING GROUP (Also includes average annual sound mortality)								
C. SAWTIMBER - (16.0" and over d.b.h.-includes 11.0" through 15.9" d.b.h. with Grade IV or better butt log)								
Scribner rule MMBM		-	-	-	4.730	1.164	-	5.894
International ¼" Rule MMBM		-	-	-	5.440	1.338	-	6.778
MM Cubic Feet		-	-	-	0.845	0.207	-	1.052
D. 4/ SAWTIMBER - (11.0" through 15.9" d.b.h. with no butt log better than Grade V)								
Scribner rule MMBM		-	-	-	0.906	-	-	0.906
International ¼" Rule MMBM		-	-	-	1.042	-	-	1.042
MM Cubic Feet		-	-	-	0.162	-	-	0.162

Summary: Scribner rule MMBM - 56.200
International ¼" rule MMBM - 64.630
MM Cubic Feet - 10.037

OTHER PRODUCTS							
E. PULPWOOD (5.0" through 10.9" d.b.h.)							
MM Cubic Feet	2.802	-	-	-	-	-	2.802
M Cords	38.921	-	-	-	-	-	38.921
F. ROUNDWOOD IN SAWTIMBER TOPS							
MM Cubic Feet	-	-	-	1.075	0.313	-	1.388
M Cords	-	-	-	14.932	4.352	-	19.284

Summary: MM Cubic Feet - 4.190
M Cords - 58.205

UNREGULATED ADDITIONAL CUT OBJECTIVE							
5/ SAWTIMBER - (11.0" and over d.b.h.)							
Scribner rule MMBM	-	13.015	-	-	-	-	13.015
International ¼" rule MMBM	-	14.967	-	-	-	-	14.967
MM Cubic Feet	-	2.324	-	-	-	-	2.324
M Cords	-	32.278	-	-	-	-	32.278
NONCONVERTIBLE PRODUCTS							
CHRISTMAS TREES							
No. of trees	10,400	-	-	-	-	-	10,400

1/ Includes partial cutting.

2/ Includes release cutting.

3/ This area is not included in the area regulation.

4/ This allowable cut is available only if harvested from the stem sizes 11.0" through 15.9" d.b.h. This wood is on stems that are to be taken from the young sawtimber size stands as thinners and toppers. This will be done to improve the spacing of the trees in the stands. When the stands are thinned to optimum basal area requirements, increased growth on the residual stems will take place. The allowable cut volume established for this size and kind of material is not interchangeable with the other sawtimber size allowable cut.

5/ This unregulated material is available only if recovered from areas on the Forest which are not currently included within a going timber sale. This is material that will be harvested from trees that have recently died and are still sound or from trees that have been successfully attacked by a killing agent. It is planned that this material be recovered by small woods operators who have simple, mobile equipment that can move easily from one place to another. The logs recovered would probably be resold to the major sawmill operators in the area. This unregulated allowable cut is not interchangeable with the "live" tree allowable cuts. This allowable cut may be recovered from either of the two working groups; the Technical Working Group and the Administrative Working Group. This includes roadside zones. This material may be salvaged from the unregulated acreage annually.

2. Cutting Limitations

This plan recognizes that cyclic market conditions will cause fluctuations in the annual cut of timber and other products. Therefore, the goal is to balance the allowable cut over the seven-year period of this plan. 1/

For the total plan period, overcutting in any one working group or allowable cut unit may not exceed ten percent of any one-year's allowable cut for that group or unit.

If, during any year, harvesting fails to equal the budget, the undercut may be made up during any subsequent year or years of the plan period.

Separate and distinct annual allowable cuts are established for the following working groups, size unit, and products: 2/

A. Technical Working Group - Sawtimber - 16.0" and over d.b.h. (includes 11.0" through 15.9" d.b.h. with Grade IV or better butt log)

B. Technical Working Group - Sawtimber - 11.0" through 15.9" d.b.h. (with no butt log better than Grade V)

C. Administrative Working Group - Sawtimber - 16.0" and over d.b.h. (includes 11.0" through 15.9" d.b.h. with Grade IV or better butt log) (Also includes average annual sound mortality)

D. Administrative Working Group - Sawtimber - 11.0" through 15.9" d.b.h. (with no butt log better than Grade V)

E. Pulpwood - 5.0" through 10.9" d.b.h.

F. Roundwood in Sawtimber Tops

In addition there is established a yearly objective for the harvest of mortality throughout the Working Circle. This is established as an unregulated cutting objective.

A Christmas tree annual allowable cut is established.

Allowable cuts are not interchangeable between the units listed above. Each unit must provide its proportionate share of the total projected cut for the Sitgreaves Working Circle. All cutting will be posted in the records to the proper allowable cut unit by District and by County.

If no cutting takes place in an allowable cut unit, then the allowable cut volume assigned to that unit is not available for harvest.

1/ In the planned Region Three 10-year reinventory and management planning program, this Working Circle is scheduled in F.Y. 1973 for reinventory and for a revised plan to be completed by June 30, 1973.
2/ Figure 2. Sawtimber Size Allowable Cut Allocations

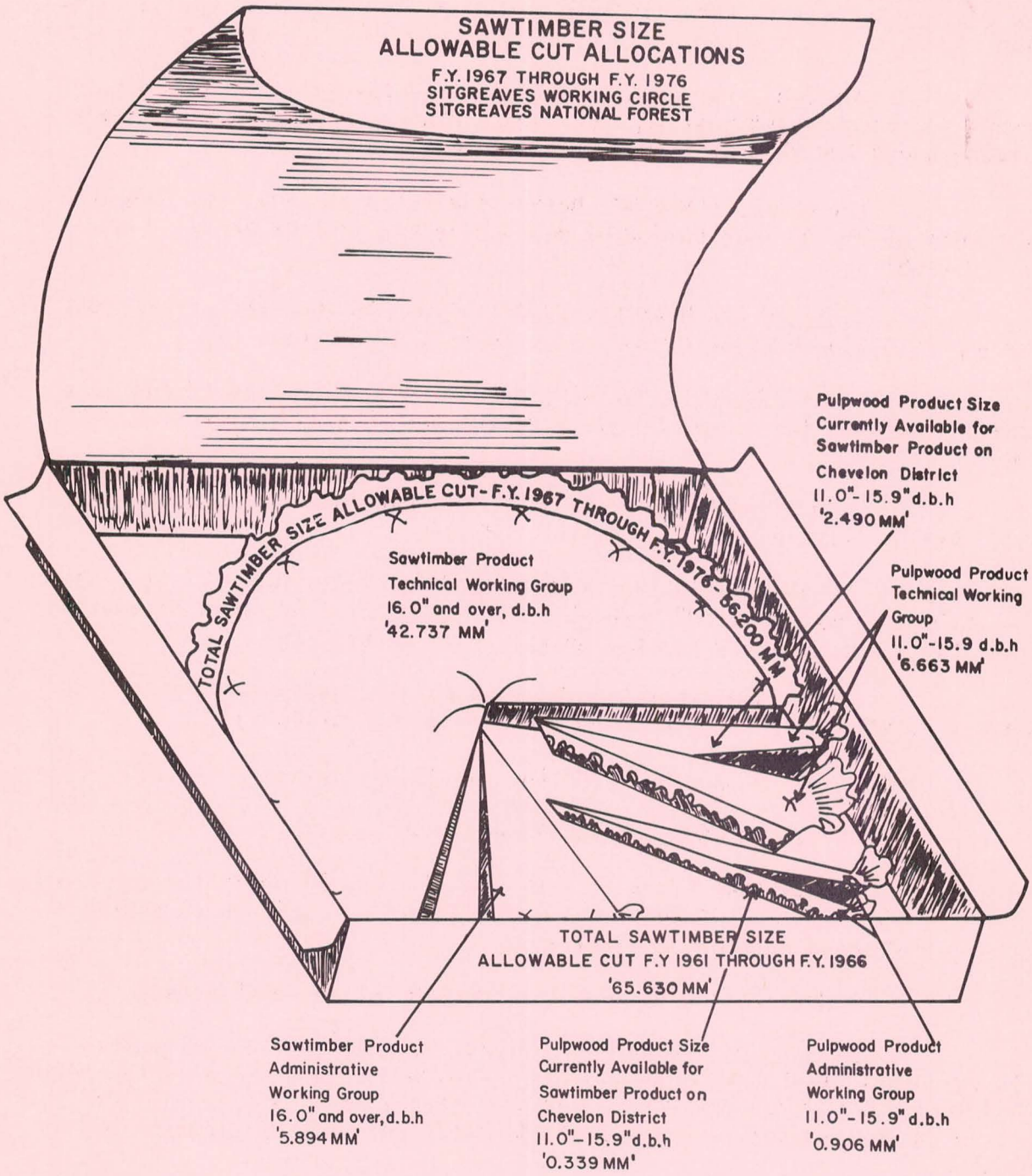

SAWTIMBER SIZE
ALLOWABLE CUT ALLOCATIONS
F.Y. 1967 THROUGH F.Y. 1976
SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST
Pulpwood Product Size
Currently Available for
Sawtimber Product on
Chevelon District
11.0"- 15.9" d.b.h
'2.490 MM'
TOTAL SAWTIMBER SIZE ALLOWABLE CUT- F.Y. 1967 THROUGH F.Y. 1976 - 86.200 MM
Sawtimber Product
Technical Working Group
16.0" and over, d.b.h
'42.737 MM'
Pulpwood Product
Technical Working
Group
11.0"-15.9 d.b.h
'6.663 MM'
TOTAL SAWTIMBER SIZE
ALLOWABLE CUT F.Y 1961 THROUGH F.Y. 1966
'65.630 MM'
Sawtimber Product
Administrative
Working Group
16.0" and over, d.b.h
'5.894 MM'
Pulpwood Product Size
Currently Available for
Sawtimber Product on
Chevelon District
11.0"-15.9" d.b.h
'0.339 MM'
Pulpwood Product
Administrative
Working Group
11.0"-15.9" d.b.h
'0.906 MM'

Figure 2

If restrictions on cutting prohibit cutting in a particular allowable cut unit, this amounts to an automatic decrease in the total available annual allowable cut.

At times, presently classified, operable, commercial forest land may be withdrawn from consideration for harvest of timber. Whenever operable commercial forest land is withdrawn or set aside from possible harvest, a reduction in the Working Circle allowable cut should be made. For each 100 acres of forested land withdrawn from timber harvest the reduction in annual allowable cut will be:

For: Site Quality I lands - 62,570 bd. ft. Scribner
Site Quality II lands - 30,740 bd. ft. Scribner
Site Quality III lands - 19,580 bd. ft. Scribner

Examples of such withdrawals are:

(a) Land converted to special use, single-use purposes such as lakes, rights-of-way, roads, campgrounds, natural areas, summer homes, etc.
(b) Land converted to wildlife openings.
(c) Deforested land seeded to grass with no tree reproduction planned for or stocked within five years of deforestation.

If additional acreage is removed from the Technical Working Group and is assigned to the Administrative Working Group, then the accompanying appropriate share of the allowable cut must be reassigned from the Technical Working Group to the Administrative Working Group. Any changes in acreage assignments will date from December 31, 1964. The same proportions of the allowable cut will apply per 100 acres by Site Quality Class as shown above.

The assignment of acreage to each Working Group will be reviewed by March 1st each year. If there is a change of at least 100 acres, the appropriate change in allowable cut will be made by amendment to this plan to become effective the following July 1st. This amendment is to be approved by the Regional Forester.

Should timber cutting not equal the budgeted amount by the end of this plan period, the undercut will not be considered as a carryover available for cutting during the following year. New cutting budgets will be prepared for the revision of the plan in F.Y. 1973.

F. Plan Revision

This plan will be revised prior to June 30, 1973. Revisions, additions, or amendments before this date will be made as necessary because of changes or advances in utilization of products, the occurrence of extensive burns, insect epidemic, or other conditions which the Forest Supervisor shall deem necessary to make this plan inoperable.

If needed, the action plan - Sections VI, VII, VIII and maps - will be revised annually by March 1 for approval by the Forest Supervisor.

Changes in the cutting budget, the transportation planning, and the schedule of compartment examination and entry may be made at this time. Copies of the changed budgets and accompanying corrected maps will be furnished the Regional Forester.

G. Coordination With Other Uses

The individual District Multiple Use Plans will provide guidelines for coordinating timber production with other uses. Any conflicts arising between this plan and the multiple use plans or other Regionally approved resource plans must be resolved by the Forest Supervisor for approval by the Regional Forester.

This management plan will determine the management decisions and set up the silvicultural practices to be used to produce the desired timber stands for all working groups within the Working Circle. It also provides guidelines for management of special areas such as proposed recreation sites.

The specifics of the Land Management Program will be determined for each particular unit of the Forest through compartment examination.

III. INTRODUCTION

A. Description of Working Circle

The Sitgreaves Working Circle is located in the east-central part of Arizona on the Colorado Plateau north of the Mogollon Rim. It is within one-half day's drive of the major population centers of Phoenix and Tucson. U.S. Highways 60 and 66 and State Highways 77, 87, 160, 173, 277, and 288 provide excellent access. The Working Circle comprises all of the Sitgreaves National Forest which includes a portion of the largest continuous body of ponderosa pine in the world.

The Sitgreaves Working Circle encompasses 884,548 acres of which 778,698 are National Forest. It is divided into four blocks which coincide with Ranger District administrative boundaries. The 470,631 acres of commercial forest land lie mostly on the south one-half of the Forest. Commercial forest land is located on each of the Ranger Districts.

The Mogollon Rim, which forms the south boundary of the Working Circle, is a geologic fault or uplift that created the Colorado Plateau. 1/ The undulating rim extends east to west and varies in elevation from approximately 6,000 feet on the east to 8,000 feet on the west. The Colorado Plateau is slightly tipped to the north.2/ All drainages flow north into the Little Colorado River except for an area of approximately 18 square miles that drains into the Salt River. The western one-half of the Colorado Plateau, except in the vicinity of the rim, is dissected by deep and rocky canyons. The east portion of the Working Circle is somewhat different in that the land was broken by volcanic activity which created "cinder knolls" which push above the otherwise gently sloping plateau. The northern boundary of the Working Circle ranges in elevation from 5,600 feet to 6,000 feet. Generally, the commercial forest is located above 6,500 feet. At elevations below 6,500 feet the vegetative type changes from predominately pinon-juniper to grassland.

The soils on the western one-fourth of the Working Circle are derived from Coconino sandstone and Kaibab limestone. The soils on the eastern one-fourth have developed from basaltic lavas. Cinder deposits are common. The soils at the higher elevation along the rim in the central one-half of the Working Circle are sandstone, shale, and conglomerate in origin. At intermediate elevations the soils are primarily of Moenkopi origin and at the lower elevations the soils are sand, silt, gravel, and conglomerate in origin.

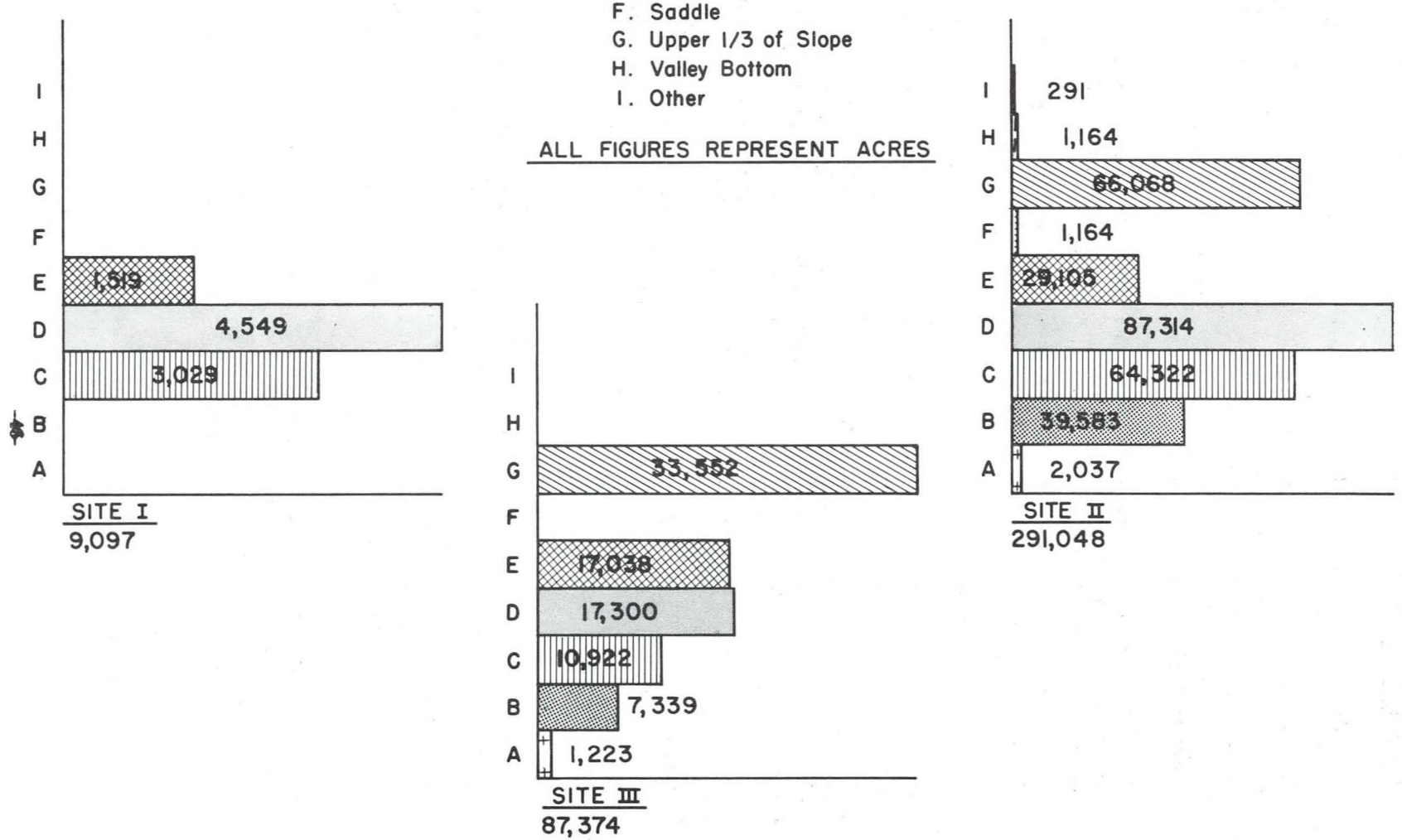
For the most part, soils are shallow and sandy loam texture.3/ Soils on the western portion are frequently underlain with a heavy clay. The torrential summer rain storms combined with the limited depth of the "A" horizon and the clay subsoil pose potential erosion problems when the protective

1/ Graph #1 Topography
2/ Graph #2 Aspect
3/ Graph #3 Soil Type

TOPOGRAPHY

A. Canyon Bottom
B. Lower 1/3 of Slope
C. Middle 1/3 of Slope
D. Plateau or Flatwoods
E. Ridgetop
F. Saddle
G. Upper 1/3 of Slope
H. Valley Bottom
I. Other

ALL FIGURES REPRESENT ACRES



SITGREAVES WORKING CIRCLE

SITGREAVES NATIONAL FOREST

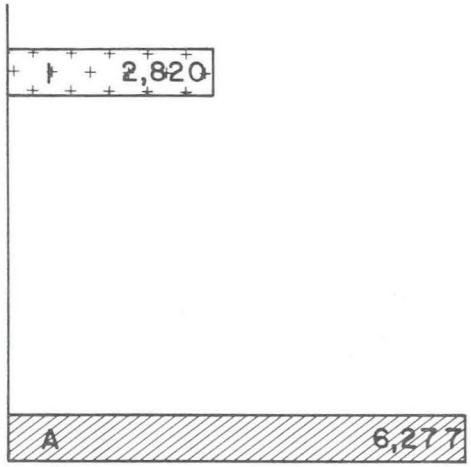
8/65 (G.R.M.)

GRAPH I

ASPECT

A. North
B. Northeast
C. East
D. Southeast
E. South
F. Southwest
G. West
H. Northwest
I. Flatland or ridgetop

ALL FIGURES REPRESENT ACRES



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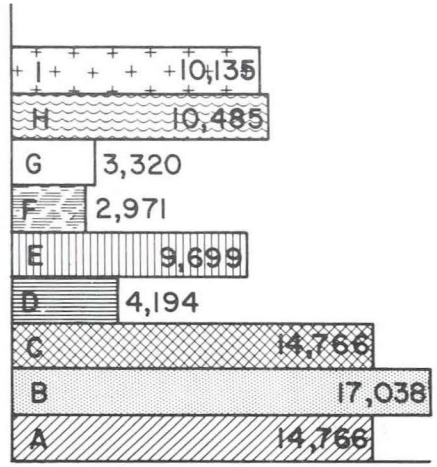

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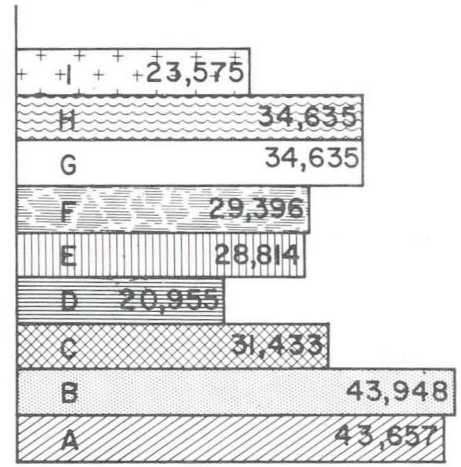


SITE II
291,048

SITGREAVES WORKING CIRCLE

SITGREAVES NATIONAL FOREST

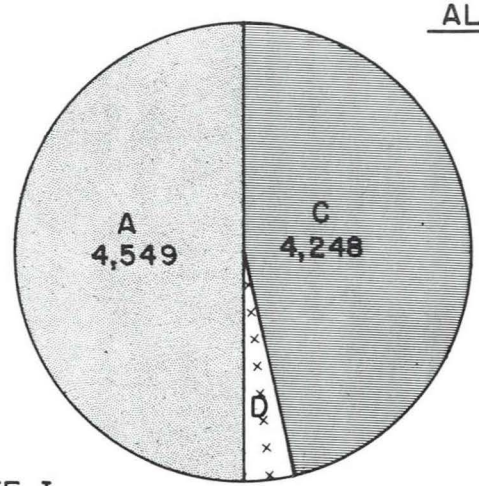
8/65 (G.R.M.)

GRAPH 2

SOIL TYPE

A. Sand
B. Clay
C. Loam
D. Gravel

ALL FIGURES REPRESENT ACRES



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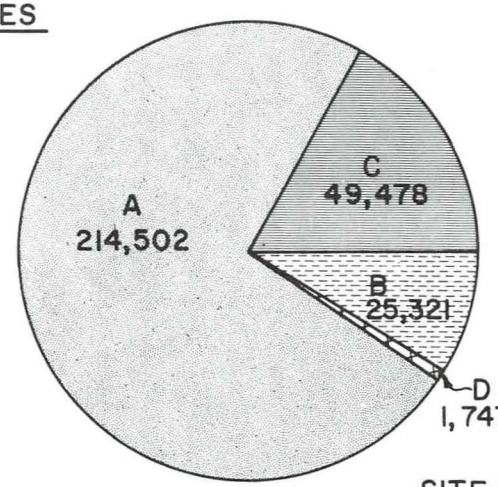

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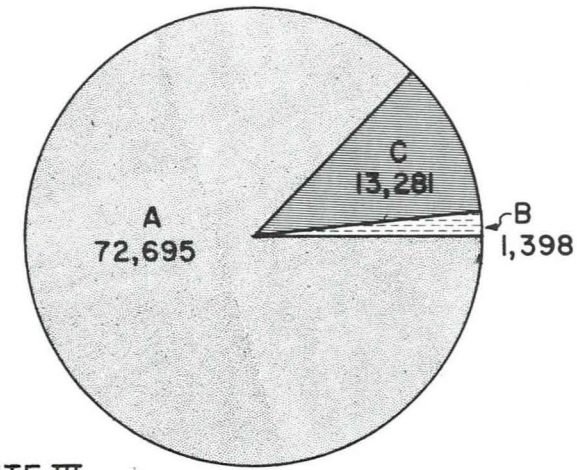


SITE III
87,374

SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST

8/65 (G.R.M.)

GRAPH 3

cover is disturbed. This is also true where soil is underlain by limestone or sandstone. Rock outcroppings occur mostly along the west sides of the main canyons and along the Mogollon Rim.1/ Ground soil conditions are usually favorable for logging except during the spring thaw and during the summer rainy season when boggy conditions prevail. The Working Circle is readily accessible for logging.2/

The climate of the Sitgreaves Working Circle is classified as either the hot steppe or the cold steppe types. The mean annual precipitation at the lower edge of the commercial forest land is 17.75 inches (Heber-6,600 feet). At higher elevations along the Mogollon Rim the annual precipitation reaches 25 to 30 inches. About 1/3 of the precipitation occurs during July, August, and September. Snowfall accounts for another 1/3 during the period December through March. , Periods of low precipitation (less than 1" per month) are normal during May and June and again in October. Summer maximum-minimum temperatures average between 98°F and 35°F. It is important to note that averages may be misleading and some individual years the monthly variation from average, especially for precipitation, can be critical. Wind movement, although not particularly high, is of importance and it should be noted that the periods of highest wind movement occur March through June and the flow is from the southwest to northeast. The winds during June are hot and dry.

An important feature, particularly of this Working Circle, is the population use and impact. Arizona ranks second in population growth rates in the United States. The population doubles approximately every 10 years. While the population within the "influence zone" of the Forest is approximately 20,000, the total population within the visitation zone (four-hours' highway travel time) is well over 1,400,000. Recreation use in C.Y. 1965 was 520,800 visits averaging $1\frac{1}{2}$ days per visit. The primary purpose of the visits was for camping and picnicing although hunting and fishing with 54,900 visits made up a considerable portion of the total.

The Sitgreaves Forest has embarked on a recreational development program that includes the construction of six new fishing lakes, a high standard scenic transportation system, and the development of campgrounds to serve the users of the lakes. The development program is concentrated within the zone of commercial timber along the Mogollon Rim and extends across the Working Circle. This expanded program is based on a projected trend of use that is expected to exceed 1,000,000 visits by 1985, and when completed will be one of the larger recreation complexes in Arizona. Except for two seminatural areas, there are no wilderness type primitive areas that are excluded from the planned unreserved commercial forest area.

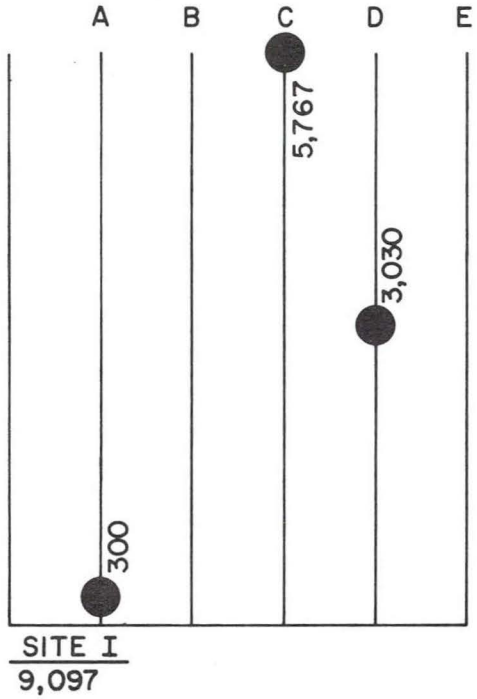
The Working Circle is grazed by sheep, cattle, and horses. (Livestock grazing is seasonal, normally five months, 6/1 to 10/31) Deer, elk, antelope, turkey, the Abert squirrel, and other animals live in the Forest. The Working Circle is somewhat unique in that one of the limiting factors on the numbers of wildlife is the limited availability of summer range rather than winter range. The primary summer range is within the commercial forest types.

1/ Graph #4 Rock Obstacles to Logging or Road Building
2/ Graph #5 Accessibility

ROCK OBSTACLE TO LOGGING OR ROAD BUILDING

A. Surface rock - obstacle
B. Bedrock - obstacle
C. No obstacle (rock free)
D. Surface rock - no obstacle
E. Bedrock - no obstacle

ALL FIGURES REPRESENT ACRES



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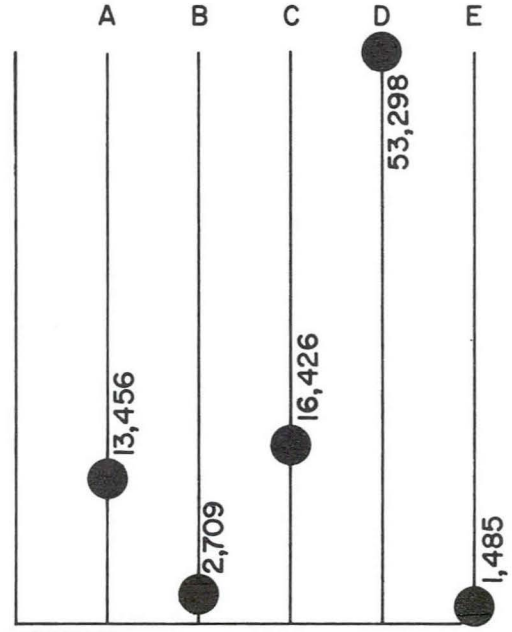

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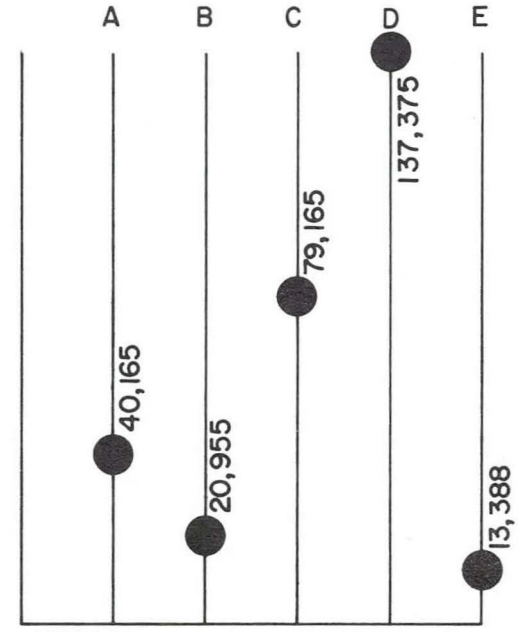


SITE II
291,048

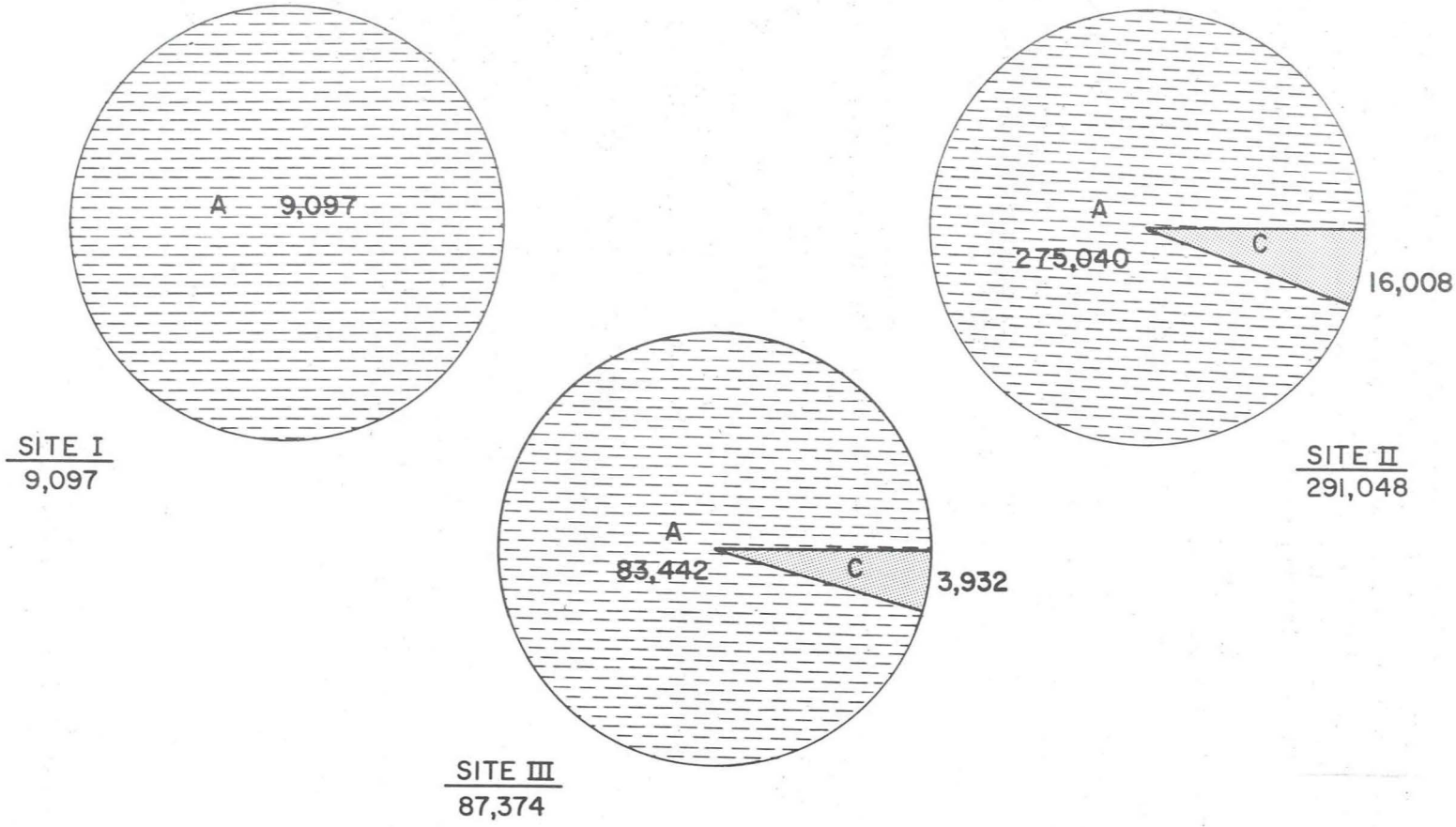
SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST

8/65 (G.R.M.)

GRAPH 4

ACCESSIBILITY

A. Accessible for logging
B. Not accessible for logging
C. Road rights-of-way



SITGREAVES WORKING CIRCLE

SITGREAVES NATIONAL FOREST

8/65 (G.R.M.)

GRAPH 5

B. Description of Timber

1. Ponderosa Pine Forest Type

This type exists in almost pure form on 382,350 acres within the Working Circle. (Ponderosa pine occurs at elevations between 6,500 to 7,500 feet) Within this type there are minor amounts of these associated species: 1/ Douglas-fir, white fir, limber pine, aspen, and extremely limited amounts of Chihuahua pine. The associated species of the lower limits of the pine type are alligator juniper, pinon pine, and gambel oak.

The operable Ponderosa pine site quality classes are 9,097 acres of Site I, 273,450 acres of Site II, and 87,374 acres of Site III. At the upper elevations, along the Mogollon Rim east of Chevelon Canyon, there is a belt of poor site. This area of poor site can be related to soil type and depth. A second belt of poor site extends across the Working Circle on the southern limits of the pine type. Here the limiting factor is soil moisture. The bulk of Site I and Site II within the pine type is between those two zones. Except for small isolated patches, the ponderosa pine type on the Working Circle has been cut over already or will be cut over by 1970.

Three hundred forty-nine plots established in 1952 were remeasured for growth and mortality. The remeasurement showed that mortality was 40.28 board feet per acre, growth was 33.49 board feet per acre and ingrowth was 18.08 board feet per acre. The extremely low annual growth for this type and the high mortality loss present are important indications as to the general condition of the stands within the type. The stands show extreme abnormality in the distribution of age classes. The type as a whole is not fully utilizing the area available. There is an over abundance of area in the 121+ age classes and in the 1-20 age class with a definite deficit in the 21 through 120-year age classes. 2/ It is also characteristic of the type that, stands are generally made up of overstocked groups, even though the area as a whole is understocked. 3/ There are approximately 17,834 acres within the operable, commercial forest that are either nonstocked or understocked to the extent they are considered nonstocked. The physiological condition of the older age classes is the major indirect cause for the high mortality now occurring within the pine type. In many instances the death cause can be associated with lightning, dwarfmistletoe, or Cronartium rust, but in other cases it must be attributed to root competition. The overmature age class is deteriorating at a rapid rate. The conditions described are especially prevelant on the Heber and Pinedale blocks. The Chevelon block does have the best age class distribution, however the younger stands are overstocked.

Competition from other species, namely alligator juniper and oak, is general across the Working Circle at the lower elevations. 4/

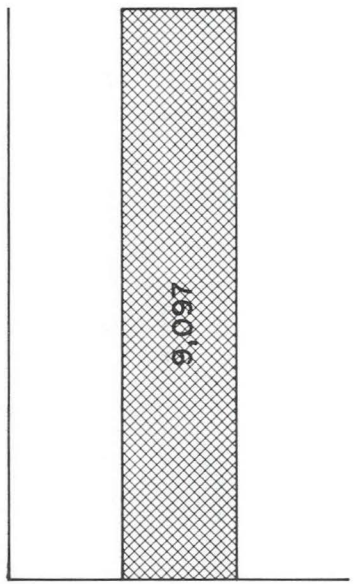
1/ Graph #6 Forest Type & Graph #7 Dominant Species Stocking on the Area
2/ Graph #8 Age Class Distribution
3/ Graph #9 Seedlings Per Acre
4/ Graph #10 Species Competition

FOREST TYPE

A. Mixed-conifer
B. Ponderosa Pine

Note: No Aspen plots were sampled

ALL FIGURES REPRESENT ACRES



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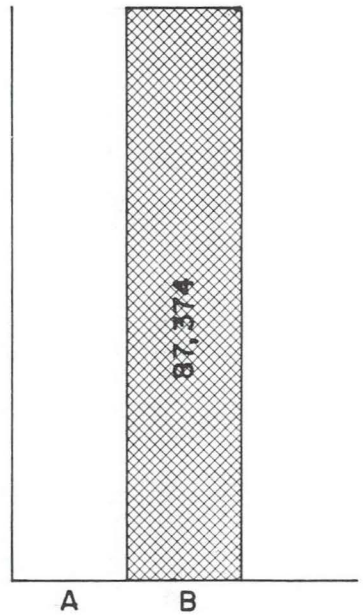

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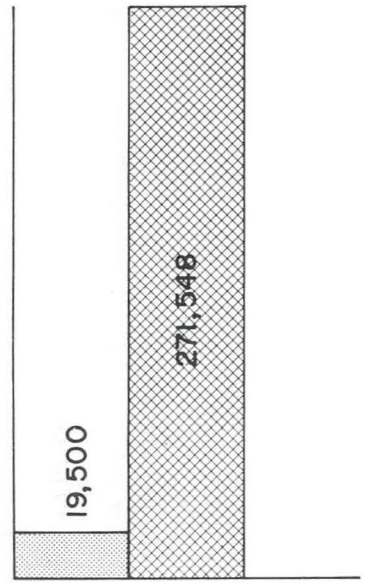


SITE II
291,048

SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST

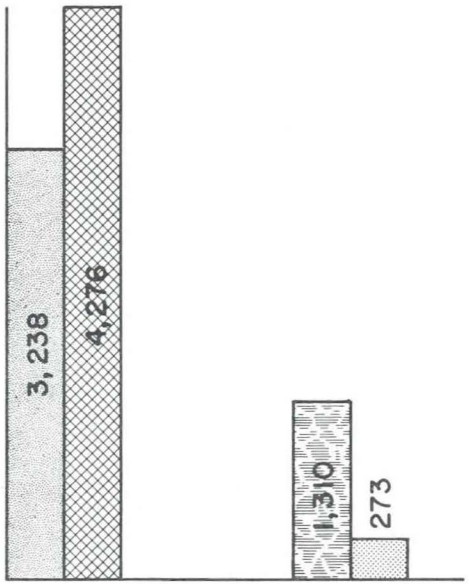
8/65 (G.R.M.)

GRAPH 6

A. Nonstocked
B. Ponderosa Pine
C. Douglas-fir
D. Chihuahua Pine
E. White Fir
F. Aspen
G. Limber Pine

This stocking consideration applies to the acre after removal of trees during the next commercial cut operation.

ALL FIGURES REPRESENT ACRES



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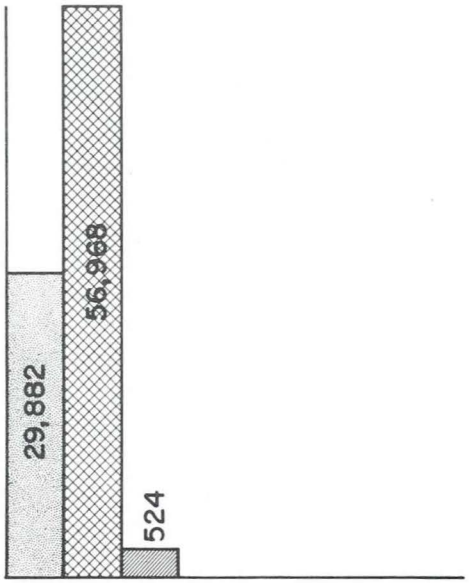

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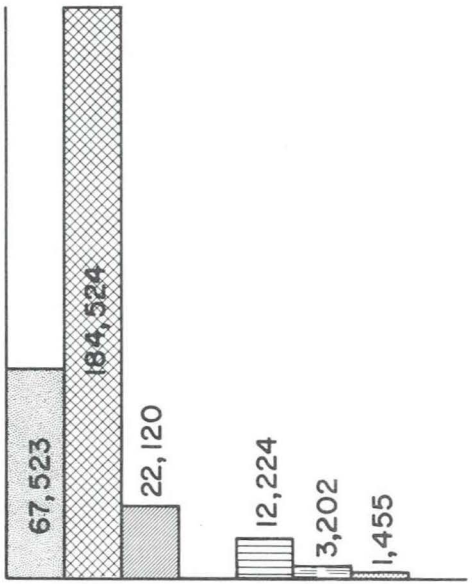

SITE II
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SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST

8/65 (G.R.M.)

GRAPH 7

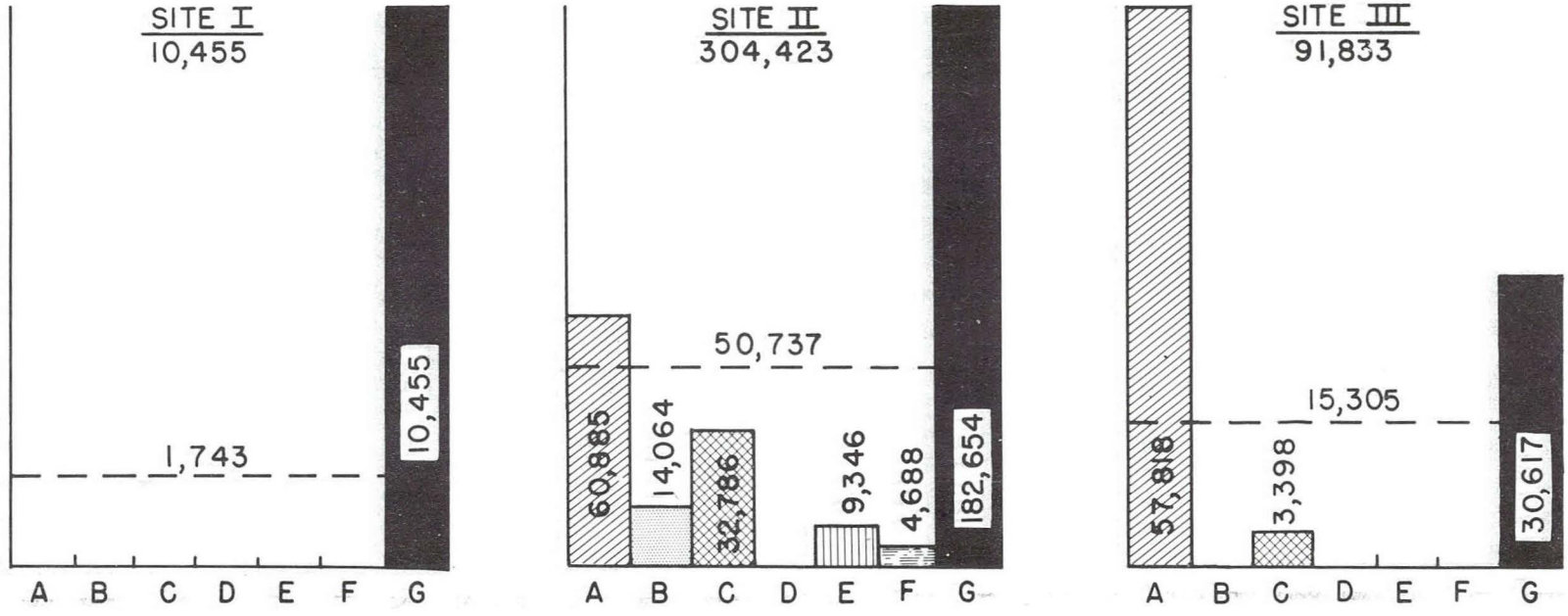
AGE CLASS DISTRIBUTION

Age Class–Years

A	1–20	E	81–100
B	21–40	F	101–120
C	41–60	G	121+
D	61–80		

— — — Desired acres per age class

ALL FIGURES REPRESENT ACRES



SITGREAVES WORKING CIRCLE

SITGREAVES NATIONAL FOREST

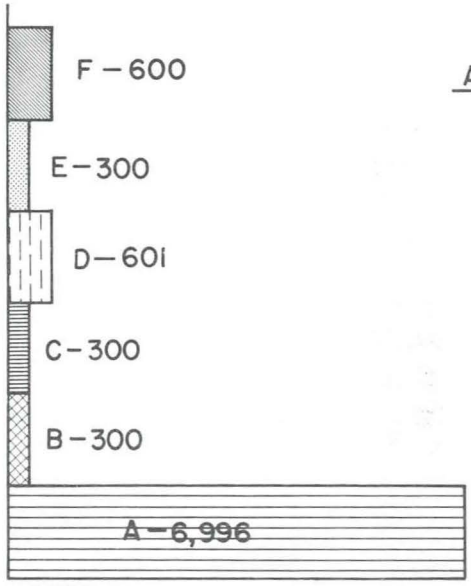
4/66 (D.L.W.)

GRAPH 8

SEEDLINGS PER ACRE

A. None
B. 1-250 Per Acre
C. 251-500
D. 501-750
E. 751-1,000
F. 1,001 up

ALL FIGURES REPRESENT ACRES



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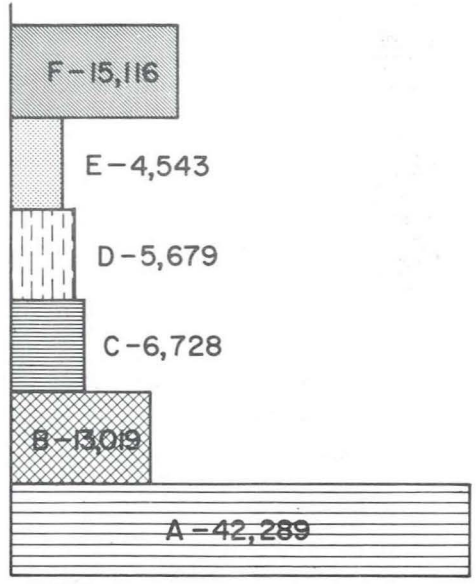

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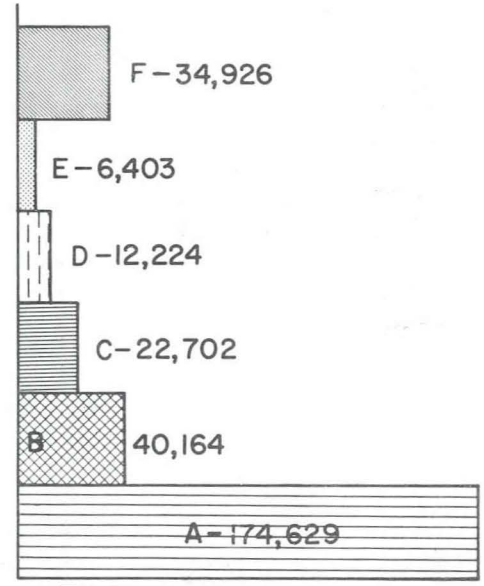


SITE II
291,048

SITGREAVES WORKING CIRCLE

SITGREAVES NATIONAL FOREST

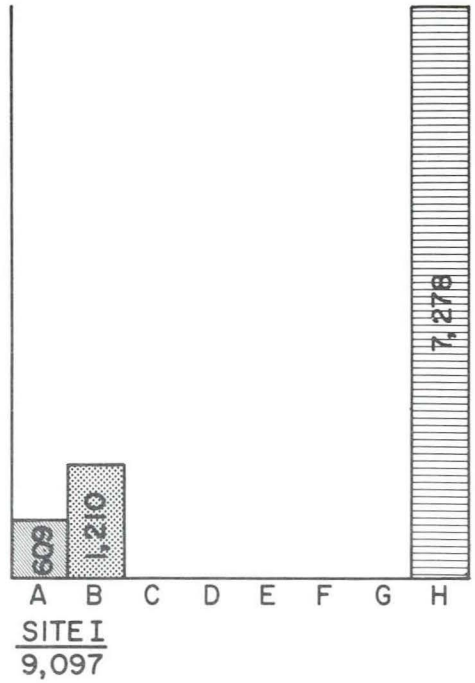
8/65 (G.R.M.)

GRAPH 9

SPECIES – COMPETION (after cutting)

A. Oak
B. Aspen
C. Juniper
D. Pinon
E. Hardwoods
F. Arizona Cypress
G. Other
H. None

ALL FIGURES REPRESENT ACRES



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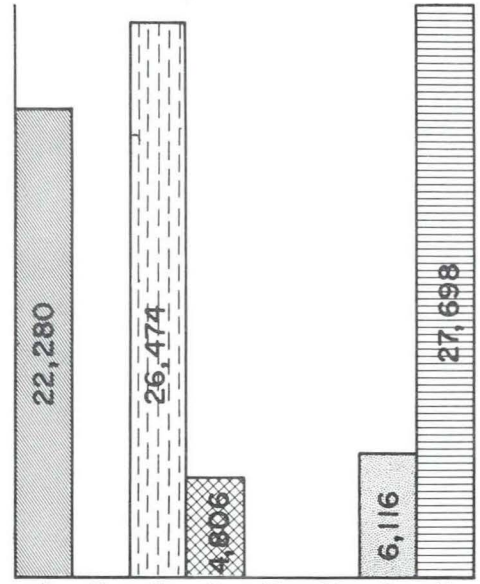

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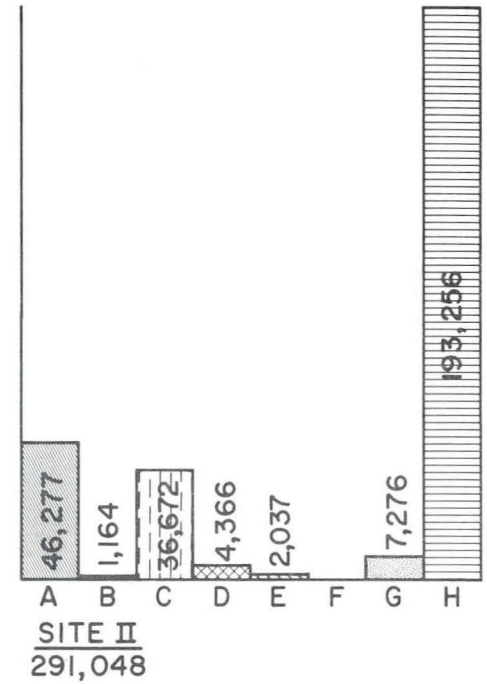


SITE II
291,048

SITGREAVES WORKING CIRCLE

SITGREAVES NATIONAL FOREST

8/65 (G.R.M.)

GRAPH 10

The invasion by these species is especially noticeable in stands that have been opened by heavy cutting. Locust rapidly takes over openings on portions of the Working Circle.

Stand stagnation generally starts when the stem density exceeds 6,000 stems per acre. This is common on the east one-half of the Heber block and on the Pinedale block. Although stagnation is not apparent on the Lakeside block, the existing reproduction and poles do tend to have poor form, especially where stem density is low. The quality of most of the stands on the Working Circle is low. In many cases, this can be attributed to early cutting practices where leave trees may have been good seed producers but were genetically undesirable.

Throughout the pine type there is much evidence that the frequency of seed crops is sufficient to provide adequate seed for natural regeneration. 1/ Each year young seedlings can be observed on some portion of the Working Circle. Seedling survival rather than seed germination is limiting the establishment of fully stocked stands on many of the openings that have been created either through heavy cutting or through catastrophy. Seedling survival is best under an open overstory or where there has been disturbance of the soil cover such as borrow pits and cuts or fills along roads. Experience has shown that successful regeneration using nursery stock, grown from locally collected seed, can be attained over most of the Working Circle. However, tip moth is prevelant in the younger stands, both naturally regenerated and planted. The trees are seldom killed but growth is retarded and some of the trees have assumed a bushy form.

2. Mixed - conifer Forest Type

The mixed-conifer type occurs on 22,180 acres located at higher elevations in the Chevelon block and on scattered, moist, cool, sites on the Heber and Lakeside blocks. It is found chiefly on limestone soils. Species included are white fir, Douglas-fir, ponderosa pine, and limber pine. Since this type comprises only 4.5% of the operable, commercial forest land, it is not practical to organize it by age classes separately from the ponderosa pine type.

Past cutting has left a residual stand that is well stocked but is not in good growing condition. The residual stands have been attacked by the Douglas-fir beetle and the fir engraver. The infestation is reaching epidemic proportions on the Chevelon block.

Regeneration has been good on heavily-cut areas. Growth rates are good wherever the stocking approximates optimum.

3. Aspen Forest Type

Small stands of aspen are found near the upper elevational limits of the Working Circle. They are not of sufficient quantities or quality to be of commercial value.

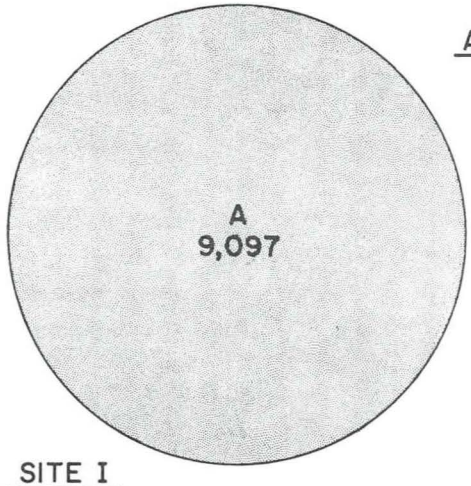
1/ Graph #11 Availability of Commercial Species Seed Source

AVAILABILITY OF COMMERCIAL SPECIES SEED SOURCE

A. Present
B. Absent

This seed source consideration applies to the acre <u>after</u> removal of trees during the next commercial cut operation.

ALL FIGURES REPRESENT ACRES



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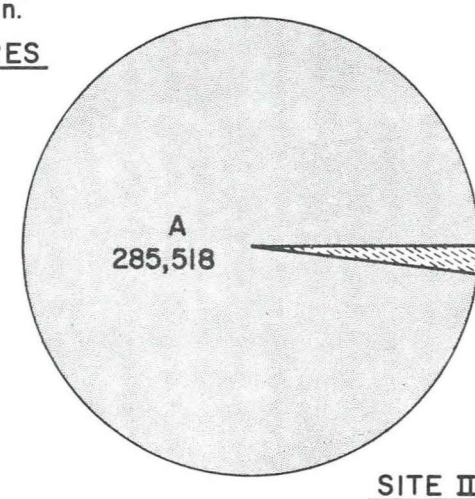

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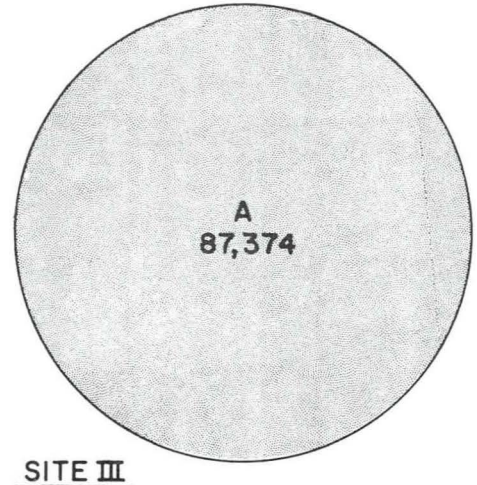


SITE III
87,374

SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST

8/65 (G.R.M.)

GRAPH 11

C. History of the Working Circle

The first settlements within the Working Circle date back to the late 1870's. On August 17, 1898, by presidential proclamation, 1,628,800 acres of land were set aside as the Black Mesa Forest Reserve. This area contained portions of the present Sitgreaves, Coconino, and Apache Forests. The purpose of the Reserve was to protect the timber along the edge of the Colorado Plateau. By proclamation dated June 30, 1906, about 380,000 acres were added. In 1907, for administrative reasons, the Black Mesa Forest Reserve was divided. The area in the Black Mesa North is now included within the present Sitgreaves Forest. On July 8, 1907, some 567,569 acres from the Public Domain were added. Executive order dated July 1, 1908 created the Sitgreaves National Forest. In 1955 by order of the Supreme Court, the "Aztec" Sections were transferred to private ownership. This transfer included approximately 42,800 acres of commercial forest land located within the Pinedale, Heber, and Chevelon Blocks. Since then, eighty-three percent of the merchantable volume above 12" D.B.H. has been removed from these "Aztec" Sections.

Sawtimber removal started on the National Forest in the 1920's on the Lakeside Block. The logs were transported by rail to McNary for processing. Logging progressed to the west. In 1924 another band mill was constructed on the Pinedale Block. Logs from the east portion of the Heber Block and from the Pinedale Block were hauled by railroad to this mill. In 1935, the mill burned and then logs were hauled to McNary by railroad. In 1936, a circular mill was built at Overgaard. Early sales on the Heber Block were trucked to this mill until it was abandoned in 1957. In 1943, two units totaling some 100 million feet were sold on the Chevelon Block. At the present time, logging is done on all blocks. Presently logs are processed in sawmills located at McNary, Show Low, Heber, and Winslow.

The pulpwood operation began in 1961 with the construction of the Southwest Forest Industries, Inc. pulpmill adjacent to the Working Circle boundary between Snowflake and Heber. The pulpwood-sized timber on the Working Circle, except for that on the Chevelon Block, is under contract to Southwest Forest Industries, Inc. The pulpwood on the Chevelon Block was reserved and sold to a company that expected to construct a pulp processing plant at Winslow. The construction plans did not materialize and the sale contract was cancelled. The deposit with the bid for timber was held by the United States. The pulpwood on the Chevelon Block is available and is accessible either to a future plant in Winslow or to the Southwest Forest Industries, Inc. pulpmill.

In 1922, the first Timber Management Plan was prepared for the Sitgreaves Forest. At that time, the timber on the eastern part of the present Lakeside Block was part of the Black River Working Circle and administered by the Apache Forest. This plan provided for an annual allowable cut of 30,570 M board feet. In 1932 separate plans were made for the Mogollon and Show Low Working Circles of the Sitgreaves Forest. The allowable cut was 41,722 M board feet. In 1941 the plans were revised, setting up the Heber and Chevelon as separate blocks within the Mogollon Working Circle. In 1949 the plans were revised. The Forest then included the Heber, Chevelon, and Show-Low-Pinedale Working Circles. The allowable cut for the Forest was approximately 54,000 M board feet. Amendments made from 1949 to 1964 did not change Working Circle

boundaries, except that the Black River Block was transferred from the Apache Forest and incorporated into the Show Low-Pinedale Working Circle.

Amendments to the management plans which this plan replaces were made to adjust for the loss of timber lands caused by the transfer of the "Aztec" Sections and the Dudley Fire. The allowable cut has been 56,200 M board feet for sawtimber. The superceded management plans were not adjusted to account for the overlap of material between 12" and 18" D.B.H. designated as pulpwood. The pulpwood allowable cut has been 37,700 cords. Estimates on which this allowable cut was based indicated 9,000 cords could be removed annually from the Lakeside Block and 28,700 cords from the Heber Block. Although the Pinedale Block is included in the Colorado Plateau sale there was no estimated annual allowable cut assigned to that Block. Low volume per acre of pulp-sized material made operability questionable.

The total actual cut of sawlogs and pulpwood has exceeded the total allowable cut for the past two years. The sawlog-sized material has been overcut during this period. Established manufacturing facilties support the demand for the full allowable cut for pulpwood and sawlogs from the Working Circle

Mortality has caused a much higher allowable cut to be established for this period than normally would be planned. Industry must take another look at the utilization of logging residues and the merchantability of smaller diameters. In order to maintain an acceptable cut over the immediate future, waste must be reduced to a minimum and thinning must be extended to a maximum. One recent accomplishment by industry was the development of a formula for the use of pinyon for pulp.

To make room for progress, timbered land is being taken out of production continuously through the construction of highways, dams, power and gas transmission lines, and other special uses. To offset the loss of productive areas, it is necessary to assure more and better growth on the remaining sites through the application of more intensive timber management practices.

D. Past Accomplishments

1. Land Status Changes

The Forest has pursued a vigorous land exchange program to return to public ownership much of the area lost when the "Aztec" lands were transferred to private ownership. Since July 1, 1964, 6,666 acres have been acquired and exchange packages have been prepared by which an additional 16,445 acres will be acquired. Sitgreaves National Forest lands within the Working Circle that will be transferred to private ownership amount to 1,658 acres. The land acquired in exchanges involving "Aztec" lands are generally cutover lands with the timber rights reserved for a period of 20 years. The lands within the Sitgreaves Working Circle that are lost in the exchanges are cutover timbered lands supporting older age classes and much more volume than the lands acquired. In other words, the area of 1-40 year age group is being increased and the area of 41-80 year age group is being decreased.

Indications are that the land exchange program will be active until the available "Aztec" lands have been acquired. Lands within this Working Circle that will pass to private ownership will continue to be lands that are classed as having a value higher than could be realized through normal National Forest management. They are mostly lands suitable for subdivision that have been blocked out around the faster growing communities within the Working Circle. These lands, for the most part, have been classed within the Administrative Working Group.

2. Volume and Area Cutover

Comparing actual volume cut with the allowable cut during the last plan period to 12/31/64 for each of the Working Circles formerly established on the Forest shows there is a backlog of sawtimber amounting to 59,668,230 board feet. 1/ The Backlog by Working Circles is as follows:

Backlog of Allowable Cut
Table 14

Chevelon Working Circle	12,278,290 board feet
Heber Working Circle	17,649,170 board feet
Show Low-Pinedale Working Circle	29,740,770 board feet
TOTAL	59,668 230 board feet

The backlog as shown does not include material 12 inches and above D.B.H. that was cut and scaled as pulpwood. It is estimated that 50% of the pulpwood cut to date has been from trees with D.B.H. between 12 inches and 17 inches. This cut, to 12/31/65, amounts to 45,644,000 board feet. Therefore, the total backlog has been reduced to 14,024,230 board feet. 35,953,000 board feet of the pulpwood was cut on the Heber Working Circle and when this is considered, there has been an overcut of some 18,303,830 board feet rather than an undercut as shown above. Comparisons of the actual cut and the allowable cut for the period C.Y. 1955 through C.Y. 1965 are listed in the appendix.

3. Timber Stand Improvements

The timber stand improvement in the past has been primarily financed from timber sale receipts. The work performed in noncommercial size stands prior to 1958 was limited to pruning. The exception to this was a limited amount of thinning done by the C.C.C. on the Lakeside Block. From 1961 to the present, emphasis has been placed on thinning. Approximately 3,000 to 4,000 acres are being thinned per year. As of 6/30/66 approximately 31,210 acres have been thinned and some 127,886 acres have been pruned. A table which lists accomplishments is in the Appendix.

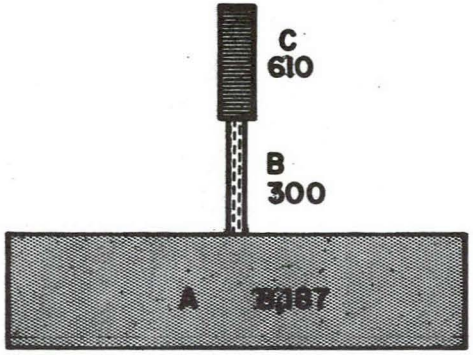
Thinning on this Working Circle is particularly important to accelerate the growth in the dense, slow growing large sapling stands that are not merchantable for an operable pulpwood cut. 2/

1/ 1950 - 1964 Show Low-Pinedale Working Circle
1959 - 1964 Heber Working Circle and Chevelon Working Circle
2/ Graph #12 Noncommercial Thinning Needed

NONCOMMERCIAL THINNING NEEDED

A. Noncommercial not needed
B. Noncommercial needed
C. Noncommercial thinning needed to control dwarfmistletoe

ALL FIGURES REPRESENT ACRES



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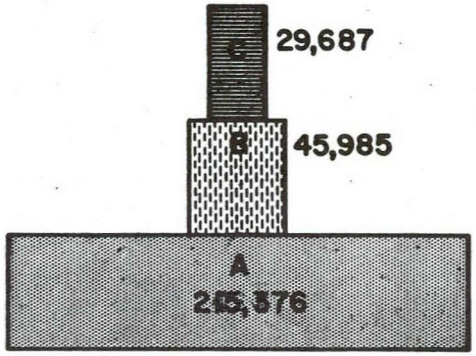

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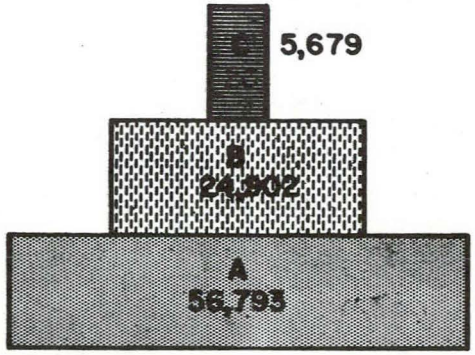

SITE III
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SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST

8/65 (G.R.M.)

GRAPH 12

A market for thinning material, 6" d.b.h. and over, is provided by the pulpmill at Snowflake. Stands once thinned soon grow into pulpsize. Then they can be improved by commercial thinning. Some trees have annual growth rings $\frac{1}{4}$" wide after three years from thinning. The early pulp thinning gives this Forest an opportunity for management unequaled by other western forests.

4. Planting and Seeding

From 1961 to 1964 planting was done on a small scale on the Chevelon Ranger District. One objective was to find what was needed in the way of site preparation in order to have successful plantations. It was also an objective to train individuals in handling planting stock and in proper planting procedures. During these years the annual acreage planted ranged from 30 acres to 70 acres. Recent survival counts indicate that approximately 75 percent of the seedlings have survived. In 1965 the District planted 1,500 acres. Planting was done both in the fall and the spring. Survival after the first six months was approximately 91 percent. Most of the loss in the fall planting was due to drought between the time the trees were planted and the winter storms. It was also due to ice and water in the planting trenches. It was noted that the trees planted in the fall started growth early and the total season growth as compared to spring planting was greater. The planting season in the spring is approximately six weeks long and it is generally followed by a period of hot, dry and windy weather. Getting stock in the ground in such a condition that it can survive the first drought season is important. Fall planting may minimize damage caused by hurried planting and also the seedling may be in better shape to withstand the spring drought period.

The most serious obstacles to planting are shallow soils underlain by rock on much of the area and layers of heavy clay soil under shallow "A" horizons. Tip moth damage and competition from grass have limited annual growth in parts of established plantations. Areas selected for reforestation will be determined in accordance with the priorities in FSM 2472.3.

The Forest seeded approximately 4 acres in 1963. The seeding was done using various types of site preparation. Germination was not a problem but seedling survival was disappointing. The only seedlings that survived were those planted under a low rose brush overstory. In 1964, 105 acres were seeded by drilling after the site was scalped. Again seed germination was good but survival of the seedlings was low, being 2 to 3 percent. Follow-up research by the University of Arizona indicates that the survival of seedlings is dependent on (1) soil temperatures and (2) available soil moisture. 1/ Success in planned seedling projects has not been completely satisfactory.

Cone collection by picking cones from cut trees has been the practice to obtain the seed now on hand. It should not be difficult to have sufficient seed on hand for all ordinary direct seeding projects. Only cursory attention has been given to the genetic characteristics of the trees from which the cones have been collected. Future cone or seed

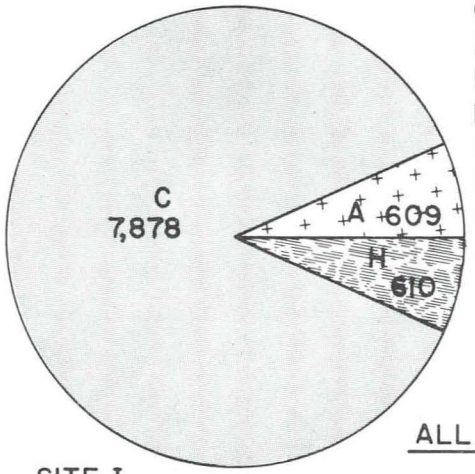
1/ Graph #13 Factors Hindering Regeneration

FACTORS HINDERING REGENERATION

A. Oak
B. Grass

All other factors were judged to be secondary in importance after the above listed factors.

C. No obstacle to regeneration
D. Brush other than Oak
E. Rodents
F. Livestock
G. Wildlife
H. Aspen
I. Juniper or Pinon
J. Duff



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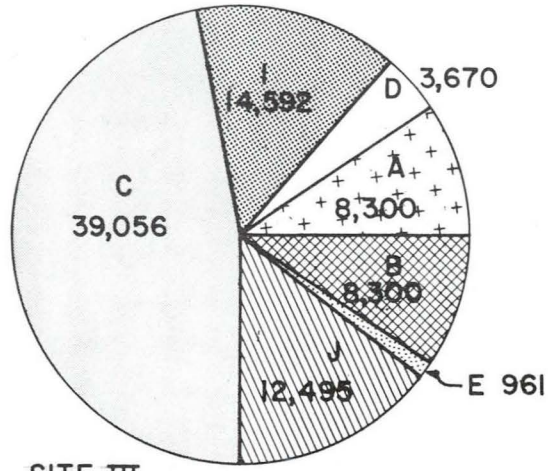

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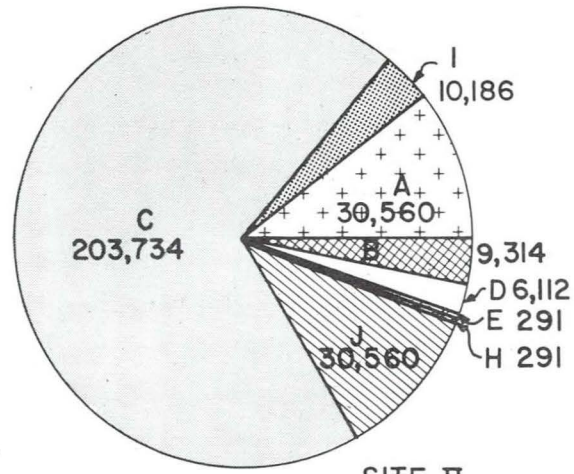

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SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST

8/65 (G.R.M.)

GRAPH 13

collection projects should emphasize the desirable characteristics of trees from which the cones are taken. Also, it will be important that markers give proper recognition to genetics and growth qualities of trees left to produce seed for natural regeneration. A table which lists accomplishments is in the Appendix.

5. Pest and Disease Control

Dwarfmistletoe in many of the stands and in areas surrounding dwarfmistletoe-free reproduction has been reduced through cutting and thinning practices. Heavy cuts have been made in recent timber sales to remove dwarfmistletoe. Small isolated Ips bark beetle outbreaks have occurred across the Working Circle. Although Ips infestations seem to be present in most slash areas, the spread to living trees has been light. Generally, it has been confined to those stands where the slash is in direct contact with a living tree. Preventative measures in thinning projects are getting felled material on the ground and away from the leave trees.

Insect infestations have occurred in the mixed-conifer type on the western edge of the Working Circle. Control methods have been limited to cutting practices that will leave a healthy young residual stand. Protection to recreation areas is provided by cutting progressively away from the area to be protected.

The damage from tip moth (Rhyaconia spp.) is prevelent in the plantations and areas of natural regeneration. Actual death loss is not high but retarded growth and poor form is noticeable. This damage will be increasingly important in planned regeneration areas. Administrative studies for control are being planned on a small scale on the Dudley burn plantations.

Heart rot (Polyporus ellisianus) is responsible for heavy losses especially in the decandent stands on this Working Circle. Surveys within the Region have shown that the decay incidence may be serious at early ages, especially in coarse-branched trees. Measurable defect is low up to age 120 years. Attempts are made to minimize future loss through proper cutting now of both pulpwood and sawlogs.

6. Fire Control

From 1949 to 1964 (16 years) there have been 3,188 fires that burned 28,235 acres. Although most of the fires are lightning caused and remain small, the potential is present for large fires such as occurred in 1956 when 21,555 acres of prime timber were destroyed by the Dudley Fire. The fire damage, other than for damage to the soils, is most severe in dense stands of saplings. The amount of "dog hair" contributes not only to the intensity and rate of spread of the fire, but also to the resistance to control.

Past practice has been to reseed burned areas to grass. Pine reproduction was not favored or protected during the interval immediately following the fire. The present condition of these past burns leaves much to be desired in the way of resource management. The exception to the above

is the Dudley Fire. Fortunately there was a good seed year immediately following the fire and the burned area was protected from grazing. The results are apparent.

Fire control techniques now being practiced consist of construction of fire breaks by machine piling and burning. Slash is also reduced by piling and burning of slash concentrations within the areas surrounded by fire breaks. The intensity of treatment is dependent on the site classification of the area cutover.

7. Erosion Control

Although the inventory indicated good ground cover and little soil movement, it must be recognized that the soils within the Working Circle have a moderate to high erodibility index, except where covered with cobblestone. 1/ In most cases, the rating is dependent on the depth of the soil to either bedrock or to the layer of heavy clay. Where the soil is shallow, accelerated runoff can be expected even though the slopes may not be steep. 2/ Criteria for determining satisfactory infiltration rates and acceptable quantities of erosion have not been developed. Practiced control measures include seeding on disturbed areas to grass and draining roads with structures followed by drilling with grass seed. The emphasis has been on seeding rather than structures. In many cases this has resulted in increased use by domestic stock and wildlife and thereby reducing the effectiveness of the grass to prevent erosion as well as prolonging the period of recovery because of the added compaction of the soil. Continued vehicular use has caused additional soil compaction. In certain areas, erosion generated by improper location of roads has caused sedimentation in drainage bottoms.

8. Small Products

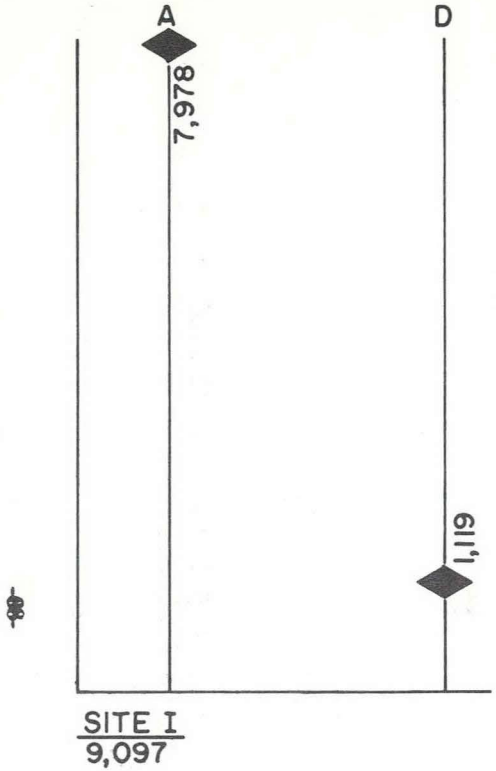
Due to the lack of markets for small products, the previous plans included only sawtimber types as commercial forest land. However, a market for small sized material developed with the installation of the pulpwood plant. This enables the forest to manage for small products on those sites where the production of sawtimber is least economical. It also may open the door for use of pinon pine, which, except for nut production, is considered a weed species.

1/ Graph #14 Erosion and Graph #15 Percent of Ground Cover
2/ Graph #16 Percent of Slope Analysis

EROSION

A. No movement
B. Gullies
C. Rills
D. General surface movement

ALL FIGURES REPRESENT ACRES



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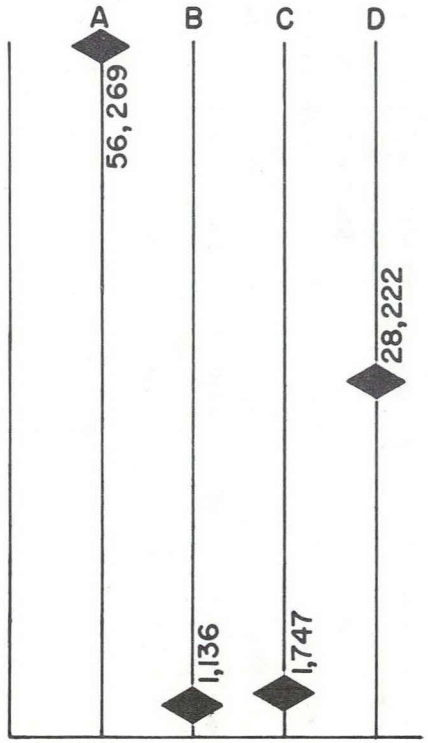

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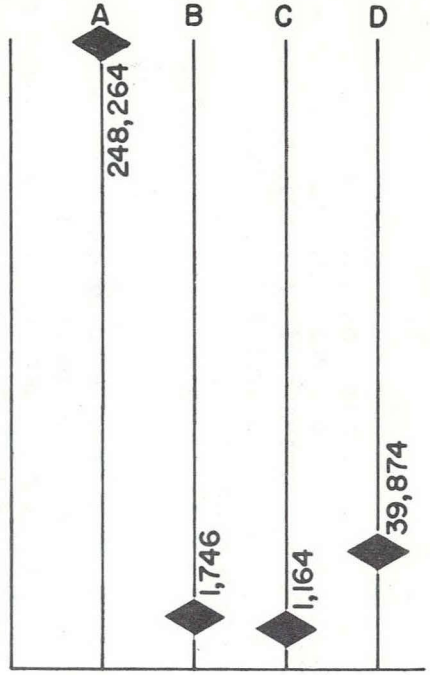

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SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST

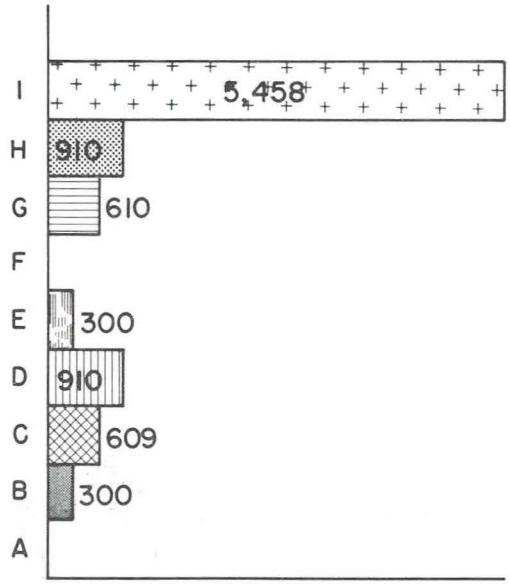
8/65 (G.R.M.)

GRAPH 14

PERCENT OF GROUND COVER

A. 10%
B. 20%
C. 30%
D. 40%
E. 50%
F. 60%
G. 70%
H. 80%
I. 90%

ALL FIGURES REPRESENT ACRES



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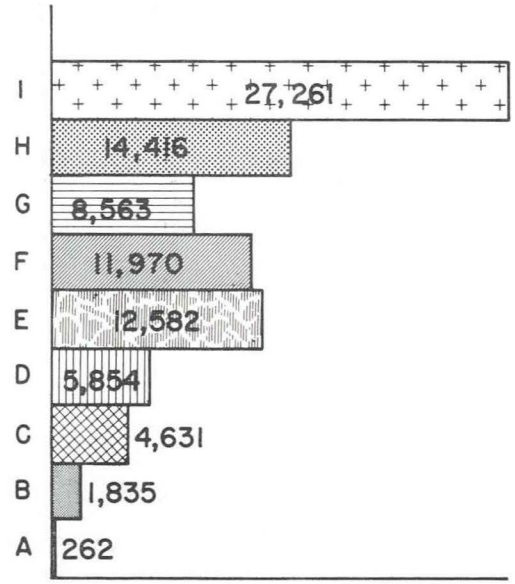

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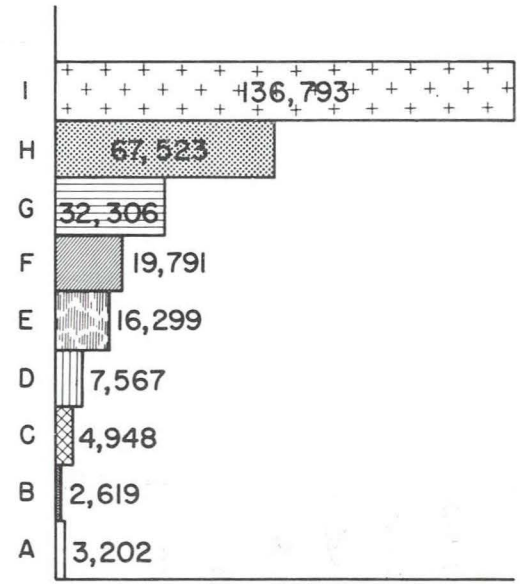

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SITGREAVES WORKING CIRCLE

SITGREAVES NATIONAL FOREST

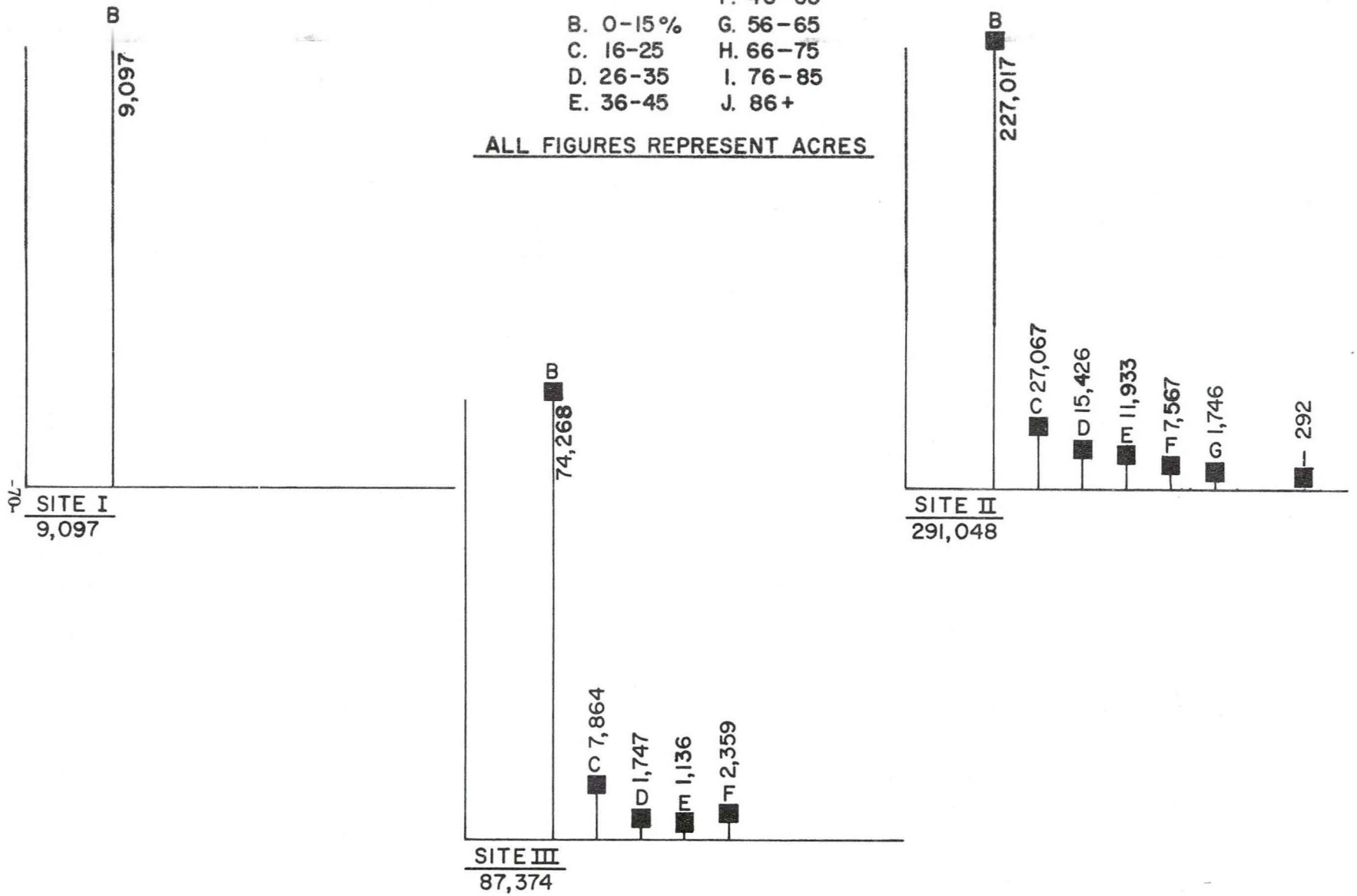
8/65 (G.R.M.)

GRAPH 15

PERCENT SLOPE ANALYSIS

	F. 46-55
B. 0-15%	G. 56-65
C. 16-25	H. 66-75
D. 26-35	I. 76-85
E. 36-45	J. 86+

ALL FIGURES REPRESENT ACRES



SITGREAVES WORKING CIRCLE

SITGREAVES NATIONAL FOREST

8/65 (G.R.M.)

GRAPH 16

IV. PROBLEMS

A. Intermediate Cuts

The most challenging problem will be to maintain growth production in these areas where heavy cuts are scheduled in order to capture mortality and remove high risk trees. This cut is called a preparatory cut by Forest Service terminology, but in fact it is not part of the scheduled regeneration cutting. The removal of older aged trees, as individuals or groups, will create deficits and voids in stocking in small areas throughout the stands. If these are left unattended without periodic checks and treatment, the productivity of the Sitgreaves National Forest will be greatly reduced.

B. Regeneration

Regeneration has taken place naturally on the Dudley Burn and other areas. This demonstrates that natural regeneration can be expected at regular short term intervals - 3-5 years. However, regeneration "on call" from seed trees or by direct seeding has not been done successfully. Until successful management combinations are developed, planned regeneration areas should be protected from grazing and invasion by competition until adequate stocking is established.

C. Disease and Insects

Past practices to control insects and disease have been primarily confined to cultural methods. Successful control has been met with varying degrees of success. It is important that intensive management of ponderosa pine be made compatible with the insect and disease enemies of this species. Much additional information will be needed on methods and measures needed for control and a practical method of application of these control efforts.

D. Fire Control

During the past decade there has been tremendous advancement in those fire control activities related to fire suppression. Advancement in control technology will continue as more experience with application of retardants is gained. Fire may or may not be damaging to stems within different age classes depending on the ground B.T.U. concentration. More criteria is available for determining the proper fire suppression action than is available for measuring the potential damage to a stand if it is burned. This lack of criteria becomes a real problem as the degree of stand management increases.

E. Competition

Alligator juniper, oak, and locust invade and preempt many of the pine sites within the Working Circle. This presents a problem following a large fire or following heavy cutting operations. Control of weed species must be considered an integral part of all operations where conditions favoring this invasion may be created.

F. Development of Cultural Programs

The thinning program in the past has been limited because the only available finances were from timber sale revenue. It had been thought that through the reduction in purchaser expenses, more revenue would be available from timber sales. However, increased costs of intensified hazard reduction and increased logging costs imposed to offset the cost of modified logging requirements, as well as road betterment costs, have offset the expected increased timber sale revenue. The additional cost of financing regeneration and related site protection measures will be necessary. It is increasingly apparent that there will be a problem of fitting together the desirable measures needed and the available financing from timber sale receipts, as well as maintaining the favorable attitude of the counties within the Working Circle that depend on receipts from timber sale revenue to finance schools and roads.

Expenditures for Sale Area Betterment and Brush Disposal for the past 11 years have been:

Table 15

	Brush Disposal	Sale Area Betterment
1955	$ 87,977.43	$ 84,727.39
1956	76,777.96	102,296.96
1957	70,227.46	125,731.28
1958	77,322.66	108,614.50
1959	76,861.35	121,594.94
1960	75,127.38	101,824.79
1961	89,473.55	104,631.92
1962	35,805.59	60,083.70
1963	63,179.18	70,657.69
1964	64,055.29	100,221.02
1965	108,578.56	103,892.99
Total	$825,386.49	$1,084,277.18

If utilization of tops and smaller diameter material can be increased, there should be an opportunity to reduce slash disposal needs. Additional money would then be available to thin and to reforest the backlog of acres in need of treatment. This would be a major contribution to production.

G. Erosion

Because of continued use, there is erosion on logging roads which were left open to vehicular travel but were not placed on the system to receive maintenance. Remedial erosion control treatment for such roads will be prescribed and be made a part of the timber sale action programs.

V. MANAGEMENT PRESCRIPTIONS

Two working groups are established. The operable portion of the Technical Working Group consists of 357,131 acres. This is 88 percent of the operable area on the Working Circle. All of the roadside zones, streamside zones, recreation areas and their buffer zones, summer home areas, administrative sites and all the aspen timber type are within the Administrative Working Group, 48,222 acres operable.

The Technical Working Group contains only those areas of commercial forest land that are available for full timber utilization. Management prescriptions based on silvicultural need of the stands will be applied to all sites. The economic accessibility of the stands on this Working Circle affords a good opportunity to manage Site III to fully utilize the potential that is present. The mixed-conifer type is limited and will be included in the ponderosa pine management program with no special treatment prescribed.

Oak hardwood stands which are primarily important as key wildlife areas will be mapped during compartment examinations or will be identified and mapped by Wildlife staffmen. Management prescriptions will be prepared by the District Ranger with advice of the Wildlife staffman.

A. Silvicultural System

Even-aged management will be practiced. Seed tree or shelterwood reproduction methods will be used. The size of the regeneration areas may vary from one-fifth acre on the Administrative Working Group to 500 acres on the Technical Working Group. The size of each regeneration area will depend on the silvicultural needs of the stand and the land treatment prescriptions. Full advantage will be taken of the first cone crop to get reproduction. However, if adequate stocking is not obtained within five years, the regeneration area will be seeded or planted.

B. Rotations

The rotation period for the Technical Working Group will be 120 years with the rotation age being 110 years.

The rotation period for the Administrative Working Group will be 200 years with a rotation age of 190 years.

C. Methods of Cutting

Cutting methods fall into three broad categories; intermediate cutting, salvage cutting, and regeneration cutting. Refer to FSM 2471.

1. Intermediate Cutting

This is synonymous with stand tending and is the cutting that is done anytime between stand establishment and the planned stand regeneration. At any one stand entry, the following various methods may be used in combination or individually.

a. Cleaning (Liberation) Cutting

This cutting is made in a young stand, not past the sapling stage, to liberate crop trees from other trees of similar species

with less desirable form or from trees of a less desirable species.

b. Weeding Cutting

This cutting is made in a young stand, not past the sapling stage, to free the small trees from weeds, brush, chaparral, vines, sod-forming grasses, or other competing vegetation.

c. Thinning Cutting

This cutting is made in an immature stand primarily to increase the rate of growth of the residual stand by reducing the stand to the optimum basal area. In actual practice any intermediate cuttings could be considered thinning cutting.

d. Release Cutting

This cutting is made in an immature stand to free the crop trees from excessive competition by removing the excess vegetation, undesired species, or undesired age classes (such as a young age class which because of excessive numbers is competing severely with an older, but desired, regulated age class).

e. Improvement Cutting

This cutting is made in an immature stand to improve the stand composition by removing trees of poor form and/or genetic qualities.

f. Risk Cutting

This cutting is made to remove trees that are likely to die before the next periodic cut.

g. Sanitation Cutting

This cutting is made to remove trees infected with disease or infested with insects in order to reduce the disease and insect incidence in the stand.

h. Salvage Cutting

This cutting is made to remove merchantable dead trees or live trees that have been successfully attacked by a killing agent before the trees become worthless. (This cutting applies where true salvage develops on an area already under a timber sale contract and harvest can be handled as a part of the contracted cut.)

i. Cutting to Release From Unmerchantable Overwood

This cutting is made to free the residual, featured age class and species from overwood unmerchantable stems or species.

2. Salvage Cutting

This cutting is made anywhere in the Forest outside a current, contract timber sale area. It is made as an unregulated cutting to recover otherwise wasted material which is ordinarily classed as mortality. Merchantable dead trees or live trees that have been successfully attacked by a killing agent are recovered as they are found throughout the forest. This cutting will include light cutting of dead, dying, diseased, insect-infested, or poor-risk trees. It includes pickup of scattered trees such as small blow downs, but not cleanup of concentrated damage.

3. Regeneration Cutting

This cutting applies generally to stands of rotation or greater age. It applies to all cutting in virgin stands and to all cutting in cutover stands where the overwood components of the stand are over rotation age. The cutting will be seed-tree or shelterwood cutting as the source of the new stand is to be from seed produced by trees standing on the cutover area.

Regeneration cutting is the cutting used to renew the Forest. Ordinarily, a regeneration cutting takes place in a rotation age stand. However, this Working Circle has an abnormal stand structure. This came about because of past cutting methods and because of heavy mortality in what was a completely virgin stand. Since entry into a virgin stand will result in regeneration and since overmature overwood must be removed from younger stands to complete the renewal, these will be classed as preparatory regeneration cuttings for reporting purposes on Form 2400-25. However, for the orderly progression to an organized forest, only the planned regeneration areas - those that are considered for entry into the 1-20 year age class - will be counted for the regeneration area specified in this plan. The usual procedure from a managed rotation age stand to a 1-20 year old stand is through two cuttings. The first is called a seed-tree cutting and the second a removal cutting.

Where mortality trees and poor risk trees are a major consideration over a large area, it is usually necessary to make a cutting preceding the seed-tree cutting. This cutting is called a preparatory cutting.

a. Preparatory Cutting

This cutting which is made to capture mortality, poor-risk, and older-aged trees is a necessary cutting on the Sitgreaves. It will include cutting of all areas except pulpwood cutting in younger-aged stands and cutting of those areas which will be converted to the 1-20-year age class.

This cutting is used in a stand which has more than two identifiable age class components in the overwood portion of the stand. This cutting, then, is used to remove only the oldest age class and the dying and defective trees of all age classes. A manageable understory older than the 1-20 age class may be present in the stand. Use of this cutting implies that the manageable understory will be released from all overwood competition in a future cutting.

b. Seed-tree Cutting

This cutting is the removal of all the mature timber in a stand except for the number of seed trees which are needed to provide seed for reproducing the stand. A minimum of five seed trees per acre will be needed. This cutting also provides the openings where reproduction may be started. During this cutting the site will be prepared to receive the seed.

This cut will be made on areas selected for regeneration. Trees will be left in sufficient quantities and sizes to provide adequate quantities of seed over the area and to protect the site. Guides are found in Region 3 supplement #191 to FSM 2442.3.

c. Removal Cutting

This cutting will remove seed trees when there is adequate reproduction above browse height (4'). This term will be used only for areas where the young stand will be entered on the control record as the 1-20 year age class. Overwood removal from older age classes will be called preparatory cutting. If reproduction cannot be established from the seed trees or a seed crop has not occurred within five years after the seed-tree cutting, the seed trees will be removed and reproduction will be established by planting or by direct seeding.

This cutting is also used in a stand which has a manageable understory of advanced reproduction (1-20 age class) or another under-rotation-age class (older than the 1-20 age class but less than 120 years old). The seed-tree cutting is by-passed and all overwood is removed in one cutting.

D. Stand Treatment Priorities

Stand prescriptions should emphasize that the basal area densities set forth in Region 3 supplement 191 to FSM 2442.3 are necessary to produce the necessary yield. This basal area should be in thrifty quality growing stock, preferably in merchantable sawlog sizes. Where the cutting of poor risk and older trees is necessary under prescribed guides, a prescription to obtain the required stocking must be made.

Priorities for stand treatments are:

1. Stands killed or badly damaged by fire, insects, disease, or wind.

2. Virgin stands.

3. Stands heavily infected with dwarfmistletoe.

4. Stands where reproduction must be established. This will be done in stands that are understocked, are of low quality, or are in an otherwise inferior condition.

5. Stands with above optimum basal area stocking.

6. Stands over rotation age.

Mixed-conifer stands will be treated to favor ponderosa pine.

E. Special Treatment

1. Recreation Areas (Including aspen type)

These areas will be managed as a part of the Administrative Working Group.

Timber on improved recreation areas, sites classified for development and designated Waterfront and Travel Zones will be managed in accordance with the Chief's policy as stated in FSM 2405.12 and FSM 2310.2. Each area or zone in or adjacent to a proposed sale area will be considered for treatment at the time of sale preparation, other cultural treatment, or when necessary in connection with recreation purposes. The prescription for treatment and selection of trees for cutting will be a joint effort with the Landscape Architect and the Timber Management Specialist.

2. Wildlife Areas

In general, the intensification of timber management will benefit wildlife, particularly the big game food supply. However, careful attention to a number of cultural details is required for best results. They should neither result in the permanent elimination of timber production or significant areas of commercial forest land, nor significant reduction in the yield of forest products of merchantable size and quality.

Adequate wildlife openings will be designated for each compartment of the commercial forest during compartment examination. Guidance and direction for selecting wildlife openings will be provided the District Ranger by the Forest Wildlife staffman.

Guides for good wildlife habitat are found in FSM 2631 and suggestions for consideration in the coordination of these needs with timber management are found in FSM 2405.14.

3. Gambel Oak

Quercus gambelii is scattered throughout the Working Circle, especially on the Lakeside Block. Sprouts will be favored for utilization by browsing animals. Identifiable producers will be favored to produce mast for wildlife food. Decadent trees will be removed to encourage sprouting. With the help of the Region's Wildlife staff specialists, the Forest will prepare a manual supplement to guide the management of gambel oak for the benefit of wildlife.

4. Power Line Rights-of-Way

Special use permits will specify that land beneath power lines may be used for other forest purposes. These openings may be considered as wildlife openings or planted to browse and herbacious species. Portions may be used for the production of any forest product so long as the use is compatible with the primary purpose of the right-of-way.

F. Cultural Treatments

1. Precommercial Cleaning and Noncommercial Thinning and Release Cutting

The Working Circle has, after treating some 31,210 acres, approximately 98,286 acres in need of precommercial cleaning and noncommercial thinning to improve spacing and to rid the stands of dwarfmistletoe. There has been no appreciable market for the small stems that are felled. Therefore, following the cleaning and thinning operations, the amount of ground fuel will be increased for a period of three to five years, depending on the volume left on the ground. At the end of this period, the fire hazard rating may be about the same, or even less than existed prior to cutting.

The objective of the cleaning and thinning program should be to increase growth through a reduction in basal area to that compatible with the site. Priority will be given to the sapling groups and small pole stands that are interspersed among stands that have been treated by a commercial thinning operation. It will also be the practice to treat the better growing sites first.

2. Commercial Thinning (Pulpwood)

There is a good market for stems above 6 inches d.b.h. Commercial thinning will be done in all stands on a planned basis. The objective is to reduce the stand density by utilizing the cut material for a product and leaving a residual stand that has a basal area optimum for the site.

Cutting policy is to enter first those stands that will support an operable cut from the intermediate and subordinate crown classes. Dominant trees may be cut if they are genetically undesirable as a future crop tree. Some reduction below optimum may be permitted if the stand can be cleared of dwarfmistletoe.

G. Cutting of Other Products

The Working Circle contains approximately 310,922 acres of pinon-juniper type. One-seeded juniper and Utah juniper are the most abundant trees. Although pinon pine is less abundant, there are sufficient quantities to support a merchantable operation should the species prove suitable for pulpwood.

As cutting progresses into the mixed-conifer type, some white fir and Douglas-fir reproduction can be expected. Pine reproduction will be favored as crop trees and the Douglas-fir and white fir will be utilized through thinning for Christmas trees. Other areas that may be appropriately used for the production of Christmas trees are power line rights-of-way within the mixed-conifer type. An accurate inventory of areas suitable for Christmas tree production will be mapped as the compartment examination program progresses.

ACTION PLAN

1966 TIMBER MANAGEMENT PLAN

Sitgreaves Working Circle

Sitgreaves National Forest

Sections VI, VII, VIII, and Maps

REVIEW AND REVISION CONTROL SCHEDULE

Fiscal Year	Forest Supervisor						Regional Forester	
	Reviewed By		Revised By		No Revision Needed		Reviewed by	
	Name	Date	Name	Date	Name	Date	Name	Date
1966	Working Circle Plan Prepared by: Keith T. Pfefferle 3/30/66							
1967								
1968								
1969								
1970								
1971								
1972								
1973								
1974								
1975								

Revised Working Circle Plan Prepared By _____

Date _____

VI. MANAGEMENT CONTROLS

A. Inventory

The original inventory was made during the period 1951-1953 on the Heber and Chevelon Working Circles and in 1954-1955 on the Show Low-Pinedale Working Circle. A total of 718 $\frac{1}{4}$-acre plots were established. Two hundred seventy-five of these plots on the cutover areas were initially established as being permanent. Many of the 443 temporary plots were remeasured when they were subsequently cutover. In 1962 and 1963, 449 of the permanent plots were relocated and remeasured for data on which to base growth and to estimate mortality.

This plan is based on data gathered during the extensive timber reinventory completed in 1964, using 95 $\frac{1}{4}$-acre plots. Each $\frac{1}{4}$-acre plot was supplemented by 10 mechanically oriented prism points. All timber volumes were computed from the prism point data. Each commercial timber area had an equal chance of being sampled.

The $\frac{1}{4}$-acre plots were permanently established in accordance with Regional standards. An inventory folder for each plot will be retained in the Forest Supervisor's Office. The folder will contain the extensive timber inventory growth plot location sheet (Form 2400-49) and an aerial photograph showing the plot location.

The standard error of the mean estimate was 8.03 percent, two times out of three. The Regional minimum acceptable error is $\pm$ 10.00 percent.

It is planned to set procedures whereby all permanent plots will be remeasured as they are found during compartment examination (including those not measured during the reinventory). Each growth plot will be recorded, re-established, and otherwise handled according to current Regional standards and procedures.

B. Compartment Examination

The four Ranger Districts (blocks) of the Forest were divided into 138 compartments. Presently the compartments in the woodland and grassland type average approximately 15,000 acres, and those in the timbered areas average 4,500 acres. A job already under way is the further subdivision of those units within the timbered area into compartments that will average 800 to 1,000 acres. This job will be done as the larger units are being examined. Until such time as these larger units are subdivided, the units as now shown will be referred to as compartments.

Examination of the compartments and preparation of detailed stand prescriptions carries a high priority. It will be the objective to examine and prepare stand prescriptions for all of the timbered compartments by 1975. It will be necessary to examine an average of 33,000 acres of National Forest land each year. It will be necessary, if this schedule is to be met to: (1) examine all areas scheduled for commercial timber sales at least two years in advance of the proposed sale date, and (2) make compart-

ment examination a part of each programmed timber cultural project, such as reforestation and thinning projects. Compartment examination will be made a part of a multi-functional management program for reacquired "Aztec" sections. Although the United States does not have the timber rights to the trees above 12" D.B.H. on the majority of these reacquired cutover sections, an intensive plan will be needed to protect and enhance those resources that are owned by the public, including starting new timber stands on those areas that should appropriately be producing wood.

A compartment examination schedule is made part of this plan. The schedule is correlated with the sawlog cutting budget where possible and is subject to change by Forest Supervisor (See Appendix for Compartment Examination Schedule).

C. Regeneration Controls

Obtaining successful regeneration by design must be successfully dealt with on the Working Circle during this cutting period. In regeneration cut areas and in understocked areas, every feasible attempt will be made to encourage natural regeneration. Exceptions to this will be roadways, permanent landings, other appropriate areas that will be used in the future harvest of pulpwood and/or salvage operations, and other areas as shown in approved management guides and multiple use plans. Special attention will be given to regeneration prior to all sawtimber harvests. The factors and complexes that will be recognized and considered are:

1. Seed Supply
2. Herbaceous Vegetation
3. Cutting and Skidding Methods
4. Soil
5. Brush Disposal
6. Grazing
7. Miscellaneous Enemies

Specific controls applied to each of the seven factors will be established so that satisfactory regeneration by design is assured. Plans for regeneration controls will be prescribed sufficiently in advance of cutting to assure multiple use coordination. A control record will be maintained and submitted to the Forest Supervisor annually. This advanced notice will provide time to make necessary adjustments in other resource programs and to activate controls for rodents and other pests. The length of time the controls will be needed depends, of course, on the success and size of the reproduction being established.

1. Natural Regeneration

Some items to be considered are:

a. Seed Supply

Between 5 and 8 pounds per acre will be needed if natural reproduction does not exist. Five seed trees above 21 inches diameter breast high is the minimum established and up to fourteen when the diameter

breast high is less than 21 inches. The minimum diameter for seed trees is 12 inches diameter breast high. Insofar as possible, the seed trees will be large, healthy, sound, and with good genetic qualities. They will be cut when reproduction has been established for 3 years.

b. Herbaceous Vegetation

Some herbaceous vegetation favors germination and protects the seedlings. However, permanent type vegetation during the first several years is detrimental. It is also recognized that on most of the Working Circle, where not overgrazed, weeds and other annuals readily invade disturbed areas. Seedling of competitive vegetation on regeneration areas should be limited to that needed as a means to prevent erosion. In this case the species used should be a temporary species.

Invasion of regeneration areas by oak, alligator juniper, or locust will be discouraged. Control by herbicides rather than mechanical means will be practiced.

c. Soil

Efforts will be made to maintain soil stability and productivity. It will be recognized that where the soil is sandy or gravelly, reproduction is seldom a matter of serious concern. Controls prescribed may not be as rigid for these areas as those prescribed when the soil is of a clay nature. Controlling erosion on regeneration areas will be accomplished first by structures. If the degree of slope is such that structures alone will not accomplish the job, then structures will be supplemented with a vegetative cover of species suitable for erosion control. When site preparation is being done on areas where a vegetative cover of weeds or grass is present, complete eradication will not be prescribed. Site preparation will be done in strips on the contour and the loamy surface layer of soil will be preserved.

d. Size of Regeneration Areas

Ordinarily, regeneration areas will be at least 10 acres in size. Exceptions will be made for the Administrative Working Group where regeneration areas may be as small as 1/5 acre. All regeneration areas must be preselected and must be mapped on compartment mosaics.

Prescriptions for intermediate cutting should recognize established firebreaks and the intensity of treatment will be compatible with the purpose of the firebreak. It may be reasonable to reduce normal density of stocking within established firebreaks.

e. Slash Disposal

Generally, on areas where advanced reproduction is present, the amount of slash disposal prescribed should be influenced by just the amount needed to provide fire protection rather than by the effect of the slash on reproduction. On areas where advanced reproduction is lacking, the degree of slash disposal should be dependent on the intensity needed to protect established seedlings. Complete disposal by piling and burning, or by chipping will generally be prescribed, but this is not a constant requirement.

On areas of low fire hazard that have been overgrazed and where the soil has been compacted, disposal by lopping and scattering or by chipping should be considered.

f. Grazing

Regeneration controls will be prescribed 3 years in advance of cutting. This advance notice will provide the time needed to coordinate grazing use with the selection of prescribed regeneration areas, to make any necessary adjustments in grazing programs, to adjust game use of the area if needed, to control rodents and other destructive pests, and to select alternate regeneration areas if the timing is wrong to allow proper coordination currently. Coordination will include:

(1) Selecting the planned regeneration areas to coincide with grazing units in the rest-rotation grazing plan.

(2) Building regeneration protection fences (when necessary) on location so that the fence will effectively serve as a grazing management unit fence. Refer to FSM 2405.11.

(3) Protecting the regeneration area until reproduction is above browse height.

Production of browse plants as an understory will be favored and encouraged where there is a timbered overstory of prescribed density. (Optimum basal area stocking level.) Refer to FSM 2476.42, R-3 Supplement No. 15, for prescribed optimum basal area stocking levels.

2. Artificial Regeneration

Artificial reforestation will be done on areas if sufficient (minimum equivalent of 300 trees per acre) reproduction is not evident five years after cutting. Site preparation will be necessary regardless of the regeneration method used. Scarifying the soil prior to broadcasting the seed or dissemination of the seed from the cones may be appropriate. Direct-seeding will be prescribed where it can be accomplished successfully. If possible, only local seed will be used. Training to recognize genetically superior trees will be scheduled for those involved in seed collection. Plans and preparations should be made for the development of seed orchards. Generally, except for seed supply and slash disposal, the same factors will be considered for direct seeding projects as discussed for natural regeneration.

Planting will be scheduled rather than relying on natural or direct seeding to obtain regeneration on those areas where the time element and aesethics are critical. Ordinarily 2-0 nursery stock will be used. Those active in inspection and supervisory positions on planting projects will be thoroughly familiar with the qualities and condition of good growing stock that is received from the nursery.

D. Calculation of Planned Cut

All cutting and entry will be controlled by area, with volume checks. Present calculations for available annual cut are considered to be as accurate as present information allows, but are intended only as guides to provide a basis for planning. Volume cut on a particular acre will be controlled by tree condition and by basal area control. Area will be selected to harvest approximately the same volume annually. If necessary,

adjustments of area or of volumes cut can be made through the annual review and/or revision of this plan. It should be made "usual" practice to formally notify established timber purchasers, active in the manufacture of material obtained from this Working Circle, of significant changes or revisions made of this plan. This, of course, is applicable to those changes that affect the present or future stability of their operations.

To achieve the conditions described in the Forest's multiple use plans and in recreation prescriptions, modifications have been made in the allowable cut calculations for the Administrative Working Group.

1. Removal Cutting

The rotation period for the Administrative Working Group has been changed from a technical rotation of 120 years to a pathological rotation of 200 years (as provided in FSM 2405.12/[3.b.7)). This reduces the yield calculations. The average annual regeneration acreage needed to maintain desirable stands is reduced from 403 to 238 acres. On this reduced acreage, the average annual net board foot allowable cut for removal cutting is 1,164 M, a 40% reduction from the 1,971 M which would have been available on the larger acreage.

2. Preparatory Cutting

Management of the Administrative Working Group is designed to maintain a recreation environment. Preparatory cutting will be accomplished through light and more frequent sanitation cuts which will avoid major changes in stand appearance and stand stocking level.

If the stands in the Administrative Working Group were to be placed in the best growing condition, the volumes in column A of the following table would be cut. Cutting recommendations modifications are shown in columns B and C.

Table 15a

	A Desirable Cut Net Total Bd. Ft. Volume	B Modification Percent of Retention	C Modified Cut Net Total Bd. Ft. Volume
Poor Risk	4,415,268	-	4,415,268
Dwarfmistletoe Infected	12,975,637	-	12,975,637
Overmature	45,531,994	50%	22,765,997
Poor Form	5,796,168	50%	2,898,084
Poor Growth Characteristics	8,014,509	20%	6,431,390
Lightning Damaged	2,117,760	-	2,117,760
Animal Damaged	701,058	-	701,058
Rodent Damaged	1,350,070	-	1,350,070
Fire Damaged	160,812	-	160,812
Mechanically Damaged	761,971	-	761,971
Insect Infested	294,507	-	294,507
Topper	323,804	-	323,804
Thinner	3,903,642	-	3,903,642
	86,347,200		59,100,000
		÷20 =	2,955 MBM

For the recreation environment, it is desirable to maintain higher stocking levels than would be retained if the cutting recommendations in column A were followed completely. To maintain these higher stocking levels featuring large trees, the cutting recommendations are modified as shown in columns B and C:

(a) Retain 50% of the overmature tree class - Those retained will be the most vigorous, full-crowned trees which show no external signs of deterioration.

(b) Retain 50% of the poor form tree class - Those retained will be trees that are not in competition with more desirable leave trees.

(c) Retain 20% of the poor growth characteristics tree class - Those retained will be trees with minor forks, with slight lean, or with slight crook.

To foster a healthy, vigorous stand those trees that are damaged, diseased, or insect-infested, are poor risk, or are excessive to the stocking level (thinners and toppers) will be cut as shown above.

These cutting modifications reduce the total recommended cut to 59,100 Mbm net for an average annual cut of 2,955 Mbm net, a 32% reduction.

3. Salvage Cutting

Since frequent sanitation cuts can be made easily along the many roads in the Administrative Working Group, it is desirable that mortality trees be harvested on a planned, regulated basis so that the timber stands may be kept clean and healthy. Therefore, the average annual mortality volume in this working group is added to the preparatory cutting allowable cut.

Preparatory Cutting Allowable Cut

Live Volume	-	2,955 Mbm Net
Mortality Volume	-	1,775 Mbm Net
Total	-	4,730 Mbm Net

Details of the allowable cut calculations are in the Appendix.

E. Marking Rules

Marking guides for each stand will be set during the compartment examination. Refer to FSM 2442.8. The marking decisions will be such as to leave the optimum basal area density in the most vigorous, best formed, healthy trees in the residual stand wherever possible.

F. Records

Records will be kept by compartments and in accordance with Regional and Forest requirements.

Efforts will be directed toward obtaining yield data for future use in estimating growth. Permanent plots will be established by site and age class. Records of growth will be permanent.

G. Cutting Budgets

The sawtimber, pulpwood, and Christmas tree cutting budgets are as follows:

WORKING CIRCLE SAWTIMBER CUTTING BUDGET[2/] - 10 YEARS

F.Y. 1967 Through F.Y. 1976

Table 16

Block	Sale Name	Map No.	Total Volume MBM	Total Acres Net	F.Y. To Sell	Cutting Method	FY 1967 Acres	FY 1967 MBM	FY 1968 Acres	FY 1968 MBM	FY 1969 Acres	FY 1969 MBM	FY 1970 Acres	FY 1970 MBM	FY 1971 Acres	FY 1971 MBM	FY 1972 Acres	FY 1972 MBM	FY 1973 Acres	FY 1973 MBM	FY 1974 Acres	FY 1974 MBM	FY 1975 Acres	FY 1975 MBM	FY 1976 Acres	FY 1976 MBM
Chevelon	Palsmino[1/]	I	35,000	12,662	-			9,000		12,000		14,000														
						Regeneration	325		400		450															
						Preparatory	2,933		3,944		4,610															
Chevelon	Double Cabin[1/]	II	40,000	6,881	-			15,000		16,000		9,000														
						Regeneration	214		139		89															
						Preparatory	2,381		2,629		1,429															
Chevelon	Gramma	III	67,500	24,031	1969									19,300		19,300		19,300		9,600						
						Regeneration							539		539		539		280							
						Preparatory							6,332		6,332		6,332		3,138							
Chevelon	Alder	IV	52,100	16,620	1972															9,700		19,300		19,300		3,800
						Regeneration													259		539		539		180	
						Preparatory													2,835		5,618		5,618		1,032	
Chevelon	Waters	V	45,000	15,000	1975																					15,400
						Regeneration																			359	
						Preparatory																			4,620	
	Scheduled Total (Cumulative)						5,853	24,000	12,965	52,000	19,543	75,000	26,414	94,300	33,285	113,600	40,156	132,900	46,668	152,200	52,825	171,500	58,982	190,800	65,173	210,000
	Allowable Totals (Cumulative)						5,893	21,000	11,786	42,000	17,679	63,000	23,372	84,000	29,465	105,000	35,358	126,000	41,251	147,000	47,144	168,000	53,037	189,000	58,930	210,000
Heber	Stermer[1/]	II	20,100	8,071	-			3,500		3,500		3,500		3,500		3,500		2,600								
						Regeneration	268		168		168		168		168		100									
						Preparatory	1,132		1,239		1,239		1,239		1,239		943									
Heber	Walnut[1/]	III	3,000	750	-			3,000																		
						Regeneration																				
						Preparatory	750																			
Heber	Buckhorn[1/]	IV	20,200	8,442	1967					3,000		3,000		3,000		3,000		3,900		4,300						
						Regeneration			100		100		100		100		168		200							
						Preparatory			1,215		1,215		1,215		1,216		1,216		1,597							
Heber	Buck	VIII	19,700	6,770	1972															1,700		6,000		6,000		6,000
						Regeneration													68		268		268		268	
						Preparatory													618		1,760		1,760		1,760	
Heber	Black Canyon[1/]	I	21,000	7,500	-			21,000																		
						Regeneration																				
						Preparatory	7,500																			
Heber	Grapevine[1/]	V	34,600	18,000	1967					7,800		7,800		7,800		7,800		3,400								
						Regeneration			290		290		290		290		137									
						Preparatory			3,766		3,766		3,766		3,766		1,639									
Heber	Joe	VI	44,000	14,646	1968					10,500		10,500		10,500		10,000		2,500								
						Regeneration			577		577		577		577		130									
						Preparatory			2,879		2,879		2,879		2,879		692									
Heber	Tom	VII	40,300	14,258	1971													10,400		16,300		13,600				
						Regeneration											600		867		850					
						Preparatory											3,240		4,708		3,993					
Heber	Aspen	IX	22,600	8,062	1973																	2,700		16,200		3,700
						Regeneration															67		817		180	
						Preparatory															833		4,994		1,171	
Heber	Willow	X	60,000	19,562	1975																					12,500
						Regeneration																			687	
						Preparatory																			3,892	
	Scheduled Total (Cumulative)						9,650	27,500	19,884	52,300	30,118	77,100	40,352	101,900	50,587	126,200	59,452	149,000	67,510	171,300	75,159	193,600	83,120	215,800	91,078	238,000
	Allowable Totals (Cumulative)						7,301	23,800	14,602	47,600	21,903	71,400	29,204	95,200	36,505	119,000	43,806	142,800	51,107	166,600	58,408	190,400	65,709	214,200	73,010	238,000
Pinedale	Morgan[1/]	I	6,000	4,950	1967			2,000		2,000		2,000														
						Regeneration	310		310		350															
						Preparatory	1,257		1,258		1,465															
Pinedale	Mortensen	II	6,600	5,492	1969									1,500		1,500		1,500		1,500		600				
						Regeneration							270		310		310		310		60					
						Preparatory							829		995		992		995		431					
Pinedale	Hub	III	8,000	6,895	1973																	1,000		1,700		1,700
						Regeneration															250		310		310	
						Preparatory															578		1,001		1,001	
	Scheduled Total (Cumulative)						1,567	2,000	3,135	4,000	4,702	6,000	6,049	7,500	7,334	9,000	8,656	10,500	9,961	12,000	11,270	13,600	12,581	15,300	13,892	17,000
	Allowable Totals (Cumulative)						3,813	1,700	7,626	3,400	11,439	5,100	15,252	6,800	19,065	8,500	22,878	10,200	26,691	11,900	30,504	13,600	34,317	15,300	38,130	17,000
Lakeside	Chipmunk[1/]	I	23,500	14,600	-			5,600		5,600		5,600		5,600		1,100										
						Regeneration	526		526		526		526		100											
						Preparatory	2,951		2,951		2,951		2,951		592											
Lakeside	Turkey	II	18,600	13,500	1970											3,300		4,400		4,400		4,400		2,100		
						Regeneration									426		526		526		526		226			
						Preparatory									2,108		2,627		2,627		2,627		1,281			
Lakeside	Wolf	III	11,000	8,800	1974																			2,300		4,600
						Regeneration																	300		526	
						Preparatory																	2,020		3,954	
	Scheduled Total (Cumulative)						3,477	5,600	6,954	11,200	10,431	16,800	13,908	22,400	17,134	26,800	20,287	31,200	23,440	35,600	26,593	40,000	30,420	44,400	34,900	49,000
	Allowable Totals (Cumulative)						3,329	4,900	6,658	9,800	9,987	14,700	13,316	19,600	16,645	24,500	19,974	29,400	23,303	34,300	26,632	39,200	29,961	44,100	33,290	49,000

1/ Under Contract as of July 1, 1966

2/ The schedule, acreages and volumes should be used as a control only until more accurate data is available through Compartment Examination. Does not include Sawtimber 11.0" through 15.9" d.b.h. with no butt log better than Grade V except on the Chevelon Block.

PLANNED PULPWOOD AREA CUTTING BUDGET 1/

TABLE 17

Block	Map No.	FY1967	FY 1968	FY 1969	FY 1970	FY 1971	FY 1972	FY 1973	TOTAL
Chevelon	1		4000 2/						4,000
	2			4000 2/					4,000
	3				9500 3/				9,500
	4					9,500 4/			9,500
	5						9500 4/		9,500
	6							9500 4/	9,500
Sub Total									46,000
Heber 2/	1	20000							20,000
	2		20000						20,000
	3			20000					20,000
	4				20000				20,000
	5					20000			20,000
	6						20000		20,000
	7							20000	20,000
Sub Total									140,000
Pinedale 2/	1	3000	2000	2000					7,000
	2	4000							4,000
	3	1500							1,500
	4		3000	3000					6,000
	5				2000	2000	2000		6,000
	6				3000	3000	3000		9,000
	7							5000	5,000
Sub Total									38,500
Lakeside 2/	1	9000							9,000
	2		8000						8,000
	3			8000					8,000
	4				8000				8,000
	5					8000			8,000
	6						8000		8,000
	7							8000	8,000
Sub Total									57,000
WORKING CIRCLE TOTALS		37,500	37,000	37,000	42,500	42,500	42,500	42,500	281,500

1/ Subject to immediate revision as soon as cutting schedule for Colorado Plateau Pulpwood sale is finalized.

2/ Volume shown is presently under contract.

3/ 4,000 cords located in Compartment #107 is under contract. 5,500 cords in Compartment #140 is not under contract

4/ Volume shown is not under contract.

PLANNED CHRISTMAS TREE CUTTING BUDGET 1/

Table 18

Block	Map No.	TREES PER F.Y. 1967	1968	1969	1970	1971	1972	1973	TOTAL
Chevelon	1	7000							7,000
	2		7000						7,000
	3			7000					7,000
	4				7000				7,000
	5					7000			7,000
	6						7000		7,000
	7							7000	7,000
Sub Total									49,000
Heber	1	2500					2500		5,000
	2	500	3000	500	500	500	500	500	6,000
	3			2500				2500	5,000
	4				2500				2,500
	5					2500			2,500
Sub Total									21,000
Pinedale	1	100							100
	2		100						100
	3			100					100
	4				100				100
	5					100			100
	6						100		100
	7							100	100
Sub Total									700
Lakeside	1	300	300	300	300	300	300	300	2,100
WORKING CIRCLE TOTAL									72,800

1/ This budget does not consider pinyon pine except on the Pinedale Block. The amount of Christmas trees cut from pinyon pine on the Chevelon, Heber and Lakeside Blocks will be unregulated and will vary with the demand.

VII. TIMBER DISPOSAL POLICIES

A. Sales

Sales will be made with the objective of harvesting all the allowable cut of the Working Circle by ten-year periods. Until otherwise changed, offerings will be made in units of such size as to fit the needs of operators presently typical of this area. Cutting will normally be controlled by the timing of the offering and the length of timber sales. The contract periods for the larger offerings will normally be four to five years. Sales for fire salvage, for disease and insect control, for other than "usual" products, and in connection with other resource management projects, will ordinarily be tree measurement, or lump-sum, and generally of less than one-year duration. These sales will be premarked before being offered for sale.

Care must be exercised in scheduling sales so that the areas to be cut can be cut at the proper time of the year. The nature of the soil type and weather pattern is such that they must be considered in preparing long term sales.

Compartment examination on the Working Circle is in the early stages of development. Once it is completed and prescriptions are available for individual stands, cutting will be controlled by the approved prescriptions made for each compartment.

B. Point of Manufacture

There are sufficient sawmills to utilize the sawtimber-volume available from this Working Circle. Sales for sawtimber should be offered without restrictions as to the point of manufacture. The future is bright for future plywood, stud, and chip production. This may involve competition for the same raw material now being utilized. In the event that new industry is established, efforts should be made to assure that the new development will provide the maximum benefits for local economy.

C. Logging Methods

In the past, logging methods have been governed primarily by economics. Increased recognition of beautification in the public interest is rapidly becoming much more important than before. Logging practices used in the future must be tailored to recognize recreational interests but as before, must be in keeping with current economical and silvicultural practices.

It can be expected that the cut per acre, except on regeneration areas, will be lower than formerly. Although more emphasis will be placed on the prevention of soil damage, it will be recognized that logging causes soil disturbance and all soil movement is not necessarily accelerated erosion or devastation. Logging methods and the time of logging will be carefully supervised.

Compartment examination and timber sale reports will prescribe equipment and methods to be used in critical areas.

D. Utilization

It is foreseeable that the present merchantability standards will need to be reviewed. There are "grey" areas that face the marker while marking trees that presently may be used for sawlogs or pulpwood and quite possibly within the plan period for studs and for plywood. Prescriptions prepared for sawlog sales should be more descriptive of material to be cut. Stems between 11.0 and 16.0 inches diameter breast high without a log better than a Grade V, if cut as pulpwood may bring more return than if cut as a sawlog. It will be recognized that material within this diameter range is now included in the allowable cut for sawlogs. This does not infer that it must be manufactured as sawlogs.

It must be recognized that the present merchantability standards for pulpwood are included in the long term (30 year) contract. Favorable accessibility to the pulpmill has afforded the opportunity to utilize material that would not normally be harvested under this contract. The timing of pulpwood cutting so that this operation will follow sawlog operations will be an added inducement to utilize material now unmerchantable for sawlogs. Also, since soil conditions limit winter pulp operations in the more favorable areas, there is a good opportunity to schedule pulpwood cutting in the low yield and fringe areas that would not normally be merchantable. The cutting of dominant trees may be prescribed in these areas if their removal will accomplish significant release.

E. Erosion Control

Methods for erosion control have been discussed in connection with soils related to natural regeneration. Policies for erosion control connected with disposal of timber will be compatible with those needed to insure regeneration on those areas where regeneration is desired. Direct seeding with pine seed will be practiced on roads and landings that are to continue in timber production. Permanent type grass will be used in similar areas if tree growth is undesirable.

F. Slash Treatment

Until an overall fire preattack plan outlining protection and hazard reduction needs and methods is developed, it will be necessary to prepare individual fire plans for specific sales without this needed overall guidance. Hazard reduction prescriptions will give full consideration to site class and productivity, yet they will recognize that the need for hazard reduction and actual slash disposal done in the lower site classes may be the better way to protect the areas of higher value. Economic accessibility of the lower site classes is such that protection will be provided to protect the timber value.

Slash disposal plans should recognize the lesser amount of fuel that will be left on the ground after intermediate cutting as compared to the volume on the ground after the virgin cut. It should also be recognized that as stand crown level increases and stem density decreases, there will be a decreasing effect on fire damage and mortality caused by heat radiation and heat convection.

The pros and cons of doing slash disposal by requiring deposits or by requiring the purchaser to do the job will be considered. It may be appropriate and in the interest of better utilization and economy to require deposits and delay slash disposal for a short period on those sawlog sales that will be immediately followed by a pulpwood cut.

G. Small Products and Special Sales

Although most of the conifer cordwood between 8 inches and 18 inches diameter breast high is now under contract for pulpwood, the use of wood for other products within these size classes should be encouraged. There are areas on each Block that are unmerchantable by terms of the present pulpwood contract. Special sales for other products using similar size material may be made for these areas.

H. Seedtree- and Removal-Regeneration Cutting Areas

Seedbed site preparation will be done in a manner which will control soil movement. Prescriptions will be written to describe the conditions and to establish the needed measures. The objective of this treatment is to prevent soil loss during the regeneration period, i.e., until tree reproduction is of size and density to protect the soil. Refer to FSM 2405.13.

When the tree reproduction is well established and is able to compete successfully with other plants, the interspace between trees may be seeded with desirable grass or browse species.

VIII. FOREST DEVELOPMENT

A. Transportation

The backbone road system necessary for the harvest of operable timber from this Working Circle has been constructed. Standards and designs have changed to meet new protection and user needs. This has resulted in the need in future sales to re-evaluate the present road system and schedule a reconstruction and betterment program to accomplish the overall resource management objectives rather than limit the development program to accomplish the timber harvest needs alone. Purchaser construction will be limited to that needed to properly remove the timber but the location of construction will be determined by the overall resource management needs.

Table 19 lists the proposed road program for the next ten years. Only those roads now on the Forest road system required for timber purposes are listed. The work needed and the costs as shown are estimated and will be revised as individual sales are appraised.

B. Reforestation

Inventory data indicated that some 17,834 acres within the Working Circle are nonstocked or understocked to the extent that they were considered nonstocked. The inventory technique included areas $\frac{1}{4}$-acre and larger. It is not reasonable to expect that small, scattered areas will be located and reforested by fill-in planting. However, it is indicative of the actual reforestation needs and the area that is not now producing wood. Efforts will be directed to reforest existing denuded areas that are 10 acres or larger. This should not imply that planned natural regeneration following logging will be uncared or unplanned for on areas of less than 10 acres.

On old burns, the practice will be to clear the site of competing vegetation in strips and either plant 2-0 stock or direct seed. On recent burns, it will be the practice to direct seed first with a mixture of pine seed and perennial rye grass seed. If necessary, follow-up will be by planting 2-0 stock grown from local seed. Protection and rodent control will be prescribed as needed to protect the plantation.

Table 20 includes, by Blocks, old burns and areas of significant size where treatment is presently needed. Planting will be prescribed for these areas rather than direct seeding. As these large areas are put back into production, emphasis will shift to thinning rather than reforestation by means other than natural regeneration.

C. Timber Stand Improvement

Cultural practices will be prescribed by compartment as each compartment is examined. Thinning will be emphasized and pruning using ordinary funds will be limited. Projects accomplished through the use of Job Corps labor should be complete, that is, include both thinning and pruning. Pruning for improvement of tree quality will be limited to not

WORKING CIRCLE TRANSPORTATION PLAN

Table 19

Sale Name and Map No.	Project Map No.	Road No.	Road Name	F.Y. to Schedule: Survey	F.Y. to Schedule: Construction	Final Design Class	Miles	Work to be Done: Reconst.	Turnouts	Spot Surf.	Culverts	Rehabilitate	New Const.	Forest Transportation Plan Estimated Cost: Purchaser	F.S.	Total	Right-of-way Status	Year R/W Needed	Remarks
CHEVELON BLOCK																			
Palamino I	1	11180	Big Chevelon	-	FY1967	SH-14	8.2						X			110,000	FS	-	Stage Construction
	2	11169.1	Deer Lake	-	FY1967	DN-24	1.5						X			70,500	FS	-	" "
	3	11119	Telephone	-	FY1967	SH-14	1.9						X			30,000	FS	-	" "
Double Cabin II	1	1156	OHaca Tentground	-	FY1967	DH-24	2.4						X			170,000	FS	-	" "
	2	11115.1	Limestone	-	FY1967	DH-28	4.1	X								230,000	FS	-	" "
	3	11115.2	Limestone	-	FY1967	SH-14	1.6	X								25,600	FS	-	Centerline Survey & Construction
	4	1191	Turkey Ridge	-	FY1968	DN-24	3.6	X								165,000	FS	-	Centerline Survey & Construction
Gramma III	1	1163	Tillman Farm	FY1968	FY1970	SN-12	5.2	X								49,900	FS	-	
	2	1170	Gramma Draw	FY1968	FY1970	SN-12	5.1	X								46,900	Pvt	1968	
	3	11120	Dutch Joe	FY1968	FY1971	SN-12	7.9	X								80,000	Pvt	1968	
Alder IV	1	11169.1	Deerlake	FY1970	FY1973	DN-24	6.5	X								305,500	Pvt	1969	
	2	11116	Sand Point	FY1970	FY1974	SN-12	6.9	X								40,000	Pvt	1969	Centerline Survey & Construction
Waters V	1	11117	Alder Lake-W. Chevelon	FY1973	FY1976	SN-12	7.1	X								57,000	FS	-	
HEBER BLOCK																			
Black Canyon I	1	1186	Promontory Butte	FY1965	FY1967	DN-24	6.3	X	X	X	X					478,800	FS	-	
Stermer II	1	1150	Rocky Draw	FY1966	FY1967	SN-12	5.7					X	X			46,200	FS	-	Centerline Survey & Construction
Buckhorn IV	1	1193	Hanks Ridge	FY1966	FY1968	SN-12	6.6	X					X			61,400	FS	-	Stage Construction
Grapevine V	1	11170.1	Wagon Draw	FY1966	FY1968	DN-24	9.0	X		X		X	X			227,700	FS	-	Stage Construction
	2	1190	Weimer	FY1966	FY1969	DN-24	3.5	X								130,000	FS	-	Centerline Survey & Construction
	3	11154	Potato Field	FY1966	FY1970	SN-12	3.5						X			39,200	FS	-	Centerline Survey & Construction
Joe VI	1	11178.1	Smith Canyon	FY1967	FY1968	SN-12	5.9		X	X	X	X				48,000	FS	-	
	2	11178.2	Smith Canyon	FY1967	FY1968	SN-12	0.7		X	X	X	X				8,000	FS	-	
	3	11179.1	St. Joe	FY1967	FY1969	SN-12	8.3		X	X	X	X				79,000	FS	-	
	4	11179.2	St. Joe	FY1967	FY1969	SN-12	4.1		X	X	X	X				29,000	FS	-	
	5	1199.1	Heber Wildcat	-	-	DN-24	10.5					X				-	Pvt	1967	
Tom VII	1	1199.1	Heber Wildcat	FY1970	FY1972	DN-24	10.5	X	X	X	X					241,500	FS	-	
	2	11170.1	Wagon Draw	FY1970	FY1973	DN-24	6.2	X	X	X	X					156,900	FS	-	
	3	11172	Larson Crossing	FY1970	FY1973	SN-12	3.6		X	X		X				46,000	FS	-	
	4	11237	Larson Ridge	-	FY1973	SN-12	3.8					X				30,400	FS	-	
	5	11238	Canyon Point	-	FY1974	DN-24	2.3					X				16,000	-	-	
Aspen IX	1	11122	Nelson	FY1972	FY1974	SN-12	6.5	X	X	X	X					50,000	FS	-	
Willow X	1	11235	Willow Spr.	FY1973	FY1976	SN-12	4.1		X	X		X				44,000	FS	-	
	2	11172	Larson Crossing	-	FY1976	SN-12	3.8			X		X				48,600	FS	-	
	3	11237	Larson Ridge	FY1973	FY1977	SN-12	6.7	X								54,000	FS	-	
Buck VIII	1	11110	Chediski	FY1971	FY1974	SN-12	1.0	X								8,000	FS	-	
PINEDALE BLOCK																			
Morgan I	1	11136	Joe Tank	None	FY1967	SN-12	18.0					X				104,400	Pvt	1967	
Mortenson II	2	11130	Mortenson Wash	FY1968	FY1971	DH-28	8.0	X	X	X	X					451,000	Pvt	1968	Stage Construction
	3	11143	Juniper Ridge L. O.	FY1968	FY1972	SN-12	4.9	X								43,000	Pvt	1968	Centerline Survey & Construction
Hub III	4	11138	Turkey Hill	FY1972	FY1974	SN-12	4.7	X								38,000	Pvt	1972	
LAKESIDE BLOCK																			
Chipmunk I	1	11185.1	Pinetop-Buck Spring	FY1965	FY1967	SN-12	4.0	X	X	X	X					44,800	FS	-	
	2	11185.2	Pinetop-Buck Spring	FY1965	FY1967	SN-12	2.0	X	X	X	X					18,200	FS	-	
	3	11182	Pinetop-Penrod	FY1965	FY1967	DH-28	4.7	X	X	X	X					263,200	FS	-	
	4	1122	Blue Ridge	FY1965	FY1969	SN-12	4.2						X			39,000	FS	-	Centerline Survey & Construction
Turkey II	5	11182	Pinetop-Penrod	FY1969	FY1971	SN-14	4.5	X	X	X	X					252,000	FS	-	
	6	11267	Brown Wash	FY1969	FY1973	SN-12	3.1	X	X	X	X					25,100	FS	-	
	7	117.1	Turkey Mountain	FY1969	FY1972	SN-12	0.6	X								9,000	FS	-	Centerline Survey & Construction
	8	117.2	Turkey Mountain	FY1969	FY1972	SN-12	2.9	X								30,000	FS	-	Centerline Survey & Construction
	9	11271	Brown Creek	FY1969	FY1971	SH-14	3.2		X	X	X					41,600	FS	-	
Wolf III	10	113	Goodman Morse	FY1973	FY1975	SN-12	6.1	X								57,000	Needed	1973	Centerline Survey & Construction

PLANNED SEVEN-YEAR REFORESTATION PROGRAM

Table 20

BLOCK	MAP No.	ACRES PER F.Y. 1967	1968	1969	1970	1971	1972	1973	TOTAL ACRES
Chevelon	1	500							500
	2		300						300
	3			300					300
	4				300				300
	5					300			300
	6						300		300
	7							300	300
Sub Total									2300
Heber	1		70						70
	2		80						80
	3	60							60
Sub Total									210
Pinedale	1	400							400
	2		100						100
	3		40						40
	4			300					300
Sub Total									840
Lakeside	1	100							100
Sub Total									100
WORKING CIRCLE TOTAL		1060	590	600	300	300	300	300	3450

exceed 40 trees per acre. The trees selected should be the crop trees that will be carried the full rotation.

Ordinarily thinning should be done by contract and control should be maintained through adequate inspection.

As projects are identified a table of priority will be appended to this plan.

D. Fire Control

The objective of fire control is to hold fire losses to a level commensurate with the values protected. In addition to planned slash disposal, timber cultural treatments can be designed to further fire control efforts. (1) Intensity of slash disposal may be geared to risks expected. (2) Prescriptions for thinning or other improvement cutting may be prescribed so that crown density is reduced below normal on areas adjacent to or within fire breaks. (3) The scheduling of roads to be closed and the timing of the closing can be governed by fire protection needs. (4) Good forest organization should eventually create stands where fire may be used as a tool of management.

Cultural operations, as outlined, will create large volumes of slash. Intensive slash disposal will price thinning out of the market. Top priority for thinning will be in areas where the risk is low and expensive slash disposal methods will not be needed. Hazard treatment will consist of preparing narrow fire breaks where stem density has been reduced to permit machine piling and burning without damage to the leave trees or where chipping of slash is done. Thinning may also be done by patches thereby reducing large expanses of slash. Wildlife use increases in thinned areas which leads to increased hunter use. It may be necessary to temporarily close recently thinned areas to hunting because of fire danger.

E. Animal Control

Regeneration areas will be protected from domestic stock through proper range management. However, if animals cannot be controlled, the area will be fenced.

Damage by wildlife has been limited to trampling and is not considered to be a problem. Planting of browse species within thinned areas should be encouraged.

F. Acquisition

Timber and land administration is being simplified through acquisition of the "Aztec" holdings. Ownership of the timber over 12 inches in diameter breast high is being reserved in private ownership for periods up to 20 years. A program for the management of these lands should be prepared. Cultural treatment of the timber stands is needed before maximum benefit to other resources can be realized. Thinning should be confined to those stands that will not grow into the 12 inch diameter class within the reservation period. Any reforestation program will be risky since future logging of

trees over 12 inch diameter breast high cannot be regulated. Priority should be given to a study of ways whereby the timber rights on these sections could be acquired. Continued acquisition of these holdings should be encouraged.

END, Action Plan Section of

1966 Timber Management Plan

Sitgreaves Working Circle

Sitgreaves National Forest

IX. INSECT AND DISEASE CONTROL

A. General Conditions

The endemic nature of the Dendroctonus spp. and the Ips spp. present no special problem at the present time in the ponderosa pine type. Infestations of epidemic proportions caused by the fir engraver (Scolytus ventralis) are present in the white fir along the Mogollon Rim. Appreciable loss in usable material is being sustained. Tip moths (Rhyacionia spp.) are causing damage in the stands of reproduction 2 to 8 feet tall.

Red Rot (Polyporus ellanianus) is responsible for the greatest loss of sawtimber volume on the Working Circle. Pole timber as well as sawtimber is infected. Defect studies indicate losses up to 30 percent in overmature yellowpine and 5 to 10 percent in trees classed as blackjacks.

Dwarfmistletoe (Arceuthobium spp.) is the most widespread growth-retarding agent on the Working Circle. It does not have a definite preference as to age class but intensive timber sale inventories indicate a trend that the degree of occurrence is most severe on areas of poor site. The current inventory indicates that 12 percent of the operable board foot volume on the Working Circle is in trees that are infected by dwarfmistletoe.

B. Special Problems and Specific Directions for Handling Each Problem

1. Disease

a. Dwarfmistletoe

Dwarfmistletoe is the principal growth retarding disease on the Working Circle. Mortality caused by dwarfmistletoe within the blackjack group is appreciable. It is present on the better as well as the marginal stands. Mortality is not as serious as the loss of increment in the infected trees. The present problem is to restrict the spread of the disease.

The silvicultural control of dwarfmistletoe is directed toward restricting the spread by removing the seed source. The extent and intensity of the infection must be determined before any attempts are made to suppress the parasite. Control will be attempted if the basal area of the residual stand will not be reduced below 30 percent of optimum or the area clear cut will not exceed 3 acres. Eradication thinning will be prescribed for those areas where the understory is infected and the overwood is removed by a removal cut. Isolated infected overstory trees that endanger reproduction, such as on a burn, may be poisoned and left standing. A 50-foot dwarfmistletoe free strip should be maintained around regeneration projects.

Thrifty trees with only a light infection will not necessarily be cut except when there is a dwarfmistletoe-free understory within 50 feet of the infected tree.

b. Red Rot

Red rot is caused by the fungus Polyporus ellisianus. Large amounts of this defect have been removed but losses will continue to be heavy until all of the mature and overmature yellow pine are removed from the present stands.

Reduction of the losses caused by that fungus will be accomplished by the elimination of a large number of infected or susceptible trees through thinning and pulpwood cutting. General guidelines will permit the removal of uninfected trees that are poor risks because of large living or dead branches, as well as the infected trees.

2. Insects

a. Tip moths (Rhyaconia spp.) are an important factor in the slow growth, rapid taper and coarse branching in the seedling and sapling stands that occur in the larger openings on the Working Circle. Little emphasis has been placed on control because generally the natural regeneration occurred in dense stands and the damaging effect of the insect was not as severe as is presently apparent in the artificially regenerated plantations.

b. The fir engraver (Scolytus ventralis) is the major cause of damage and death of white fir within the mixed-conifer type. The beetle cuts transverse egg gallaries along the cambium layer, girdling the trunk.

Direct control methods are difficult and uneconomical except in high value recreation areas because of the limited amount of the forest type. Indirect control methods will be used to lessen the damage. Indirect methods include the harvest of mature or otherwise unhealthy trees. Intermediate cutting will be heavy to reduce competition among the more vigorous trees. The direction of logging will be progressively away from areas of high value on which untreated lightly-logged stands are left.

C. Handling Abnormal Conditions

Special efforts will be made to make regular inspections in areas of high value or areas that are particularly susceptible to insect and disease outbreaks. Constant surveillance will be maintained while on everyday work. Aerial fire patrols will be on the alert to detect and report signs of outbreaks. Abnormal conditions on the Working Circle, caused by either biological (insect, disease, etc.) or physical (fire, wind, etc.) factors, should be brought to the attention of the Regional Office. Outbreaks should be reported on form R3 5200-5, and as outlined in instructions under R-3 Supplement, FSM 5221.1.

District personnel should be trained to detect insect and disease symptoms. Each District should have material and equipment on hand to properly handle specimens of the insects or disease collected for forwarding to the Regional Office for identification.

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B. STATISTICS OF INVENTORY

STATISTICAL ANALYSIS 05/23/66

SITGREAVES N.F.

NO. OF LOCATIONS = 95.000, THE SUM OF X = 605.151
THE SUM OF X SQUARED = 6215.919, FOR LIVE VOLUME BD.FT.

SC 1 = 3, SC 2 = 65, SC 3 = 27 SC 0 = 0

TOTAL LOCATIONS FOR ALL SITES = 95.

COMPUTATIONS FOR SITE CLASS ALL.

MEAN	=	6.370M
STANDARD DEVIATION	= + OR -	4.985M
STANDARD ERROR	= + OR -	.512M
PERCENT OF ERROR	= + OR -	8.03
COEFFICIENT OF VARIATION =		78.26
NO.OF LOCATIONS NEEDED FOR + OR - 5 PERCENT	=	245.01

←

NO. OF LOCATIONS = 95.000, THE SUM OF X = 144.149
THE SUM OF X SQUARED = 312.219, FOR LIVE VOLUME CU.FT.

SC 1 = 3, SC 2 = 65, SC 3 = 27, SC 0 = 0

TOTAL LOCATIONS FOR ALL SITES = 95.

COMPUTATIONS FOR SITE CLASS ALL.

MEAN	=	1.517M
STANDARD DEVIATION	= + OR -	.992M
STANDARD ERROR	= + OR -	.102M
PERCENT OF ERROR	= + OR -	6.74
COEFFICIENT OF VARIATION =		65.39
NO.OF LOCATIONS NEEDED FOR + OR - 5 PERCENT	=	171.04

C. Allowable Cut and Growth Calculations

1. Acreage, Volume, and Allowable Cut Comparisons.

a. Acreage.

INVENTORY AND ALLOWABLE CUT DATA
FROM PREVIOUS MANAGEMENT PLANS
Table 21

Category	Net Acres: Current Mgt. Plan Tabulation	Net Acres: Past Mgt. Plans Tabulation	Difference
Operable Stocked	387,519	411,058	-23,539
Operable Nonstocked	17,834	7,964	+ 9,870
Aspen	1,358	not listed	+ 1,358
Total - Operable	406,711	419,022	-12,311
Inoperable	17,011	19,495	- 2,484
Total - Commercial	423,722	438,517	-14,795

Differences between acreages as listed in past management plans and as listed in this current management plan are accounted for by:

		Acre Differences
(1)	Aspen was not mapped and tabulated as a separate stand type in the previous plans.	- 1,358
(2)	A more critical examination of the area at this time resulted in an increase of the listed nonstocked acreage.	- 9,870
(3)	A new, more accurate land status record is now available. As a result, the new forested acreage tabulation showed a decrease from the tabulation in the past plans.	
	Operable	- 12,311
	Inoperable	- 2,484
	Total decrease in forested acres	- 14,795
(4)	Total decrease in stocked, operable softwood acreage: minus aspen acreage	- 1,358
	minus additional nonstocked acreage	- 9,870
	minus decrease in operable acreage	- 12,311
		- 23,539

b. Volume - Board feet, Scribner Rule - Operable, Stocked, Softwood Commercial Forest Land.

	Item	Net Volume Scribner Rule M Bd. Ft.
(1)	Total net volume, operable stocked commercial forest lands, tabulated from past management plans	2,819,264

Item - cont'd	Net Volume Scribner Rule M Bd. Ft.
(2) Minus net volume which was prorated over the 23,539 acres decrease in operable area (2,819,264 M bd.ft.÷ 411,058 acres = 6858 bd. ft. per acre; 6858 bd.ft. net per acre X 23,539 acres = 161,430,462 bd.ft.).	- 161,430
(3) Total net volume at time of last inventory on the current 387,519 acres of operable, stocked commercial forest lands	2,657,834
(4) A different volume table for ponderosa pine was used for this inventory than was used for the previous inventory. Extended volumes have been running between 9 and 11 percent less with the new volume tables. The volume of other species for the last inventory was 146,094 M bd. ft. net which leaves 2,511,740 M bd. ft. net of ponderosa pine. A deduction of 9.6+ % was made for volume table differences	- 241,139
(5) Total adjusted net volume on the 387,519 acres of current operable, stocked commercial forest lands at last inventory	2,416,695
(6) Minus the 11-year actual measured cut of sawtimber-size material	- 634,497
	1,782,198
(7) Minus waste for 11 years - from studies and inspections it has been determined that about 12% additional volume is left in the woods as waste (.12 x 634,497 = 76,140)	- 76,140
	1,706,058
(8) Minus the 11-year mortality (40.28 bd.ft. per acre per year X 387,519 acres = 15,609,265 X 11 years = 171,701,915 bd. ft.)	- 171,702
	1,534,356
(9) Plus the 11-year growth (51.57 bd. ft. per acre per year X 387,519 acres = 19,984,355 X 11 years = 219,827,905 bd. ft.)	+ 219,828
(10) Current net Scribner bd. ft. inventory on all stocked, operable, softwood acres	1,754,184

c. Volume - Board Feet, Scribner Rule - Inoperable, Stocked, Softwood Commercial Forest Land.

(1) Total net volume, inoperable, stocked, commercial forest lands tabulated from past management plans .	244,949
(2) Minus net volume which was prorated over the 2,484 acres decrease in inoperable area (244,949 M bd.ft. ÷ 19,495 acres = 12,565 bd.ft./acre; 12,565 bd.ft. per acre X 2,484 acres = 31,211 M bd.ft.)	31,211
	213,738
(3) Minus 9.6% for volume table differences (.096 X 213,738 = 20,519)	- 20,519
	193,219

(4) Minus a difference which is only accounted for by (a) unusually heavy mortality which far exceeded the growth rate and (b) using too high an average volume per acre figure for inoperable lands for the past management plans. There are no inventory plot locations in the inoperable stands so volumes per acre from corresponding operable stands were used for the inoperable stands. In the past management plans the average per acre used was 12,565 bd. ft. as compared to 3,700 bd. ft. in this inventory . . - 130,277

(5) Current net Scribner bd.ft. inventory on all stocked, inoperable softwood acres 62,942

d. Actual Cut during span of past management plans, since last extensive inventory.

TABLE 22

C.Y.	Sawtimber and Pulpwood Material	Pulpwood Material Only		Total Drain of Sawtimber-Size Material
		Total Cut	50% Poletimber-size	
	Net M Bd.Ft.	Net M Bd.Ft.	Net M Bd.Ft.	Net M Bd.Ft.
1955	58,810.00			58,810.00
1956	72,197.00			72,197.00
1957	52,270.00			52,270.00
1958	41,179.38			41,179.38
1959	60,159.31			60,159.31
1960	44,965.64			44,965.64
1961	38,948.72	1,725.27	862.64	38,086.08
1962	76,441.86	27,804.18	13,902.09	62,539.77
1963	68,036.74	16,263.07	8,131.54	59,905.20
1964	93,542.34	19,564.38	9,782.19	83,760.15
1965	73,565.06	25,881.12	12,940.56	60,624.50
	680,116.05	91,238.02	45,619.02	634,497.03

e. Net Volume, M Bd. Ft. Scribner for Species other than Ponderosa Pine at time of last Inventory on Operable, Stocked, Commercial Forest Land.

TABLE 23

Working Circle	Douglas-fir	White Fir	Limber Pine	Total
Chevelon	69,544	54,318	3,171	127,033
Heber	15,609	2,312	1,140	19,061
Show Low-Pinedale	--	--	--	--
	85,153	56,630	4,311	146,094

f. Inventory and Allowable Cut data from Previous Management Plans.

TABLE 24

Working Circle	Category	Acres	Net Vol. M Bd.Ft.	Allowable Cut Sawtimber M Bd.Ft.	Allowable Cut Pulpwood M Bd.Ft	Allowable Cut Pulpwood Cords
Chevelon (1951-1952) (Projected as of January 1, 1955)	Virgin Sawtimber	76,001	810,859			
	Cutover Sawtimber	17,121	116,252			
	Recreation Areas	1,032	13,520			
		94,154	940,631	21,000		
	Nonstocked(burn)	7,964	--			
	Inoperable	13,433	181,722			
		115,551	1,122,353			
Heber (1951-1952) (Projected as of January 1, 1955)	Virgin Sawtimber	90,784	942,723			
	Cutover Sawtimber	98,009	521,408			
	Recreation Areas	741	7,729			
		189,534	1,471,860	27,500	14,458	28,915
	Inoperable	6,062	63,227			
		195,596	1,535,087			
Show Low-Pinedale (1954-1955) (Projected as of January 1, 1955)	Virgin Sawtimber	13,733	48,808			
	Cutover Sawtimber	113,286	355,789			
	Recreation Areas	351	2,176			
		127,370	406,773	7,700	4,402	8,804
Summary (as of January 1, 1955)	Operable Areas	411,058	2,819,264	56,200	18,860	37,719
	Nonstocked Areas	7,964	--			
	Inoperable Areas	19,495	244,949			
		438,517	3,064,213	56,200	18,860	37,719

NOTE: Approximately 50% of the pulpwood allowable cut has been coming from sawtimber-size trees, i.e., 11.0" thru 18.0" d.b.h. On this basis the total sawtimber-size allowable cut for the Sitgreaves Forest beginning in 1961 has been:

Sawtimber product -	56,200 M bd.ft.
Pulpwood product -	9,430 M bd.ft.
Total sawtimber size	65,630 M bd.ft.

g. Analysis of Past Cutting Record as Compared to the Allowable Cut.

TABLE 25

Net M Bd. Ft. Scribner

Item	Actual Cut: Total Volume Cut	Actual Cut: Average Per Year	Allowable Cut	Over or Under: Amount	Over or Under: Percent
(1) Sawtimber Product Cut, 1955-1965	588,878	53,534	56,200	-2,666	- 4.74
(2) Cut in (1) plus 12% waste not measured.	659,543	59,958	56,200	+3,758	+ 6.69
(3) Sawtimber Product Cut, 1955-1960	329,581	54,930	56,200	-1,270	- 2.26
(4) Cut in (3) plus 12% waste not measured.	369,131	61,522	56,200	+5,322	+ 9.47
(5) Sawtimber Product Cut, 1961-1965	259,297	51,859	56,200	-4,341	- 7.72
(6) Cut in (5) plus 12% waste not measured	290,413	58,083	56,200	+1,883	+ 3.35
(7) Sawtimber Size Cut, 1961-1965	304,916	60,983	65,630	-4,647	- 7.08
(8) Cut in (7) plus 12% waste not measured	341,506	68,301	65,630	+2,671	+ 4.07
(9) Sawtimber and pulpwood cut, 1961-1965	350,535	70,107	75,060	-4,953	- 6.60
(10) Cut in (9) plus 12% waste not measured	392,599	78,520	75,060	+3,460	+ 4.61
Period Summaries					
(11) Sawtimber Product Cut, 1955-1965	588,878	-	618,200	-29,322	- 4.74
(12) Cut in (11) plus 12% waste not measured	659,543	-	618,200	+41,343	+ 6.69
(13) Sawtimber size cut, 1955-1965	634,497	-	665,350	-30,853	- 4.64
(14) Cut in (13) plus 12% waste not measured	710,637	-	665,350	+45,287	+ 6.81
(15) Sawtimber and pulpwood cut, 1955-1965	680,116	-	712,500	-32,384	- 4.55
(16) Cut in (15) plus 12% waste not measured	761,730	-	712,500	+49,230	+ 6.91
Total sawtimber-size cut compared to originally established allowable cut.					
(17) Sawtimber size cut, 1961-1965	304,916	60,983	56,200	+4,783	+ 8.51
(18) Cut in (17) plus 12% waste not measured	341,506	68,301	56,200	+12,101	+21.53
(19) Sawtimber size cut, 1955-1965	634,497	57,682	56,200	+ 1,482	+ 2.64
(20) Cut in (19) plus 12% waste not measured	710,637	64,603	56,200	+ 8,403	+14.95

2. Allowable Cut Calculations.

a. Possible Methods of Determining Allowable Cut.

(1) Von Mantel formula against total inventory

(a) Scribner Board feet, net - operable lands

$$AY = \frac{AV}{R/2} = \frac{1,754,183,636}{60} = 29,236,394 \text{ bd. ft. annually}$$

(b) Cubic feet, net - operable lands

$$AY = \frac{AV}{R/2} = \frac{514,190,164}{60} = 8,569,836 \text{ cu. ft.}$$

(2) Rotation age and older trees component of total inventory

$$AY = \frac{R+}{20} = \frac{678,225,387}{20} = 33,911,269 \text{ bd. ft. annually}$$

(3) All trees 20" d.b.h. or more component of total inventory

$$AY = \frac{20DBH-+}{20} = \frac{1,037,802,832}{20} = 51,890,142 \text{ bd. ft. annually}$$

24" d.b.h. and over	678,225,387
20"-23" d.b.h.	359,577,445
	1,037,802,832

(4) All trees designated as 'Live, remove" by inventory crews during course of inventory, i.e., the trees that need to be cut to benefit the stand.

$$AY = \frac{LR}{20} = \frac{1,060,397,169}{20} = 53,019,858 \text{ bd. ft. annually}$$

(5) All trees which should be removed during the next cutting period because they are damaged, diseased, dying, insect infested, or are poor quality.

Summation

All 'live remove' tree classes	1,060,397,169
All 'live retain'-poor Other tree class	25,160,456
Thinner tree class	501,154
Dwarfmistletoe infected	21,055,026
Damaged by fire	1,133,564
Damaged by Rodents	309,828
Damaged by Animals	4,806,676
Damaged by mechanical means	2,368,664
Damaged by insects	7,855,288
	1,123,587,825

$$AY = \frac{MR}{20} = \frac{1,123,587,825}{20} = 56,179,391 \text{ bd. ft. annually}$$

(6) Equating allowable cut to growth tabulated from remeasurement of $\frac{1}{4}$-acre growth plots.
51.57 bd. ft. net per acre for 388,877 acres = 20,054,387 bd. ft. annually.

(7) Equating allowable cut to growth forecast on the basis of current basal area stocking.

Total for working circle = 26,426,000 bd. ft.

SUMMATION OF POSSIBLE METHODS OF DETERMINING ALLOWABLE CUT

(8) Summation Table 26

Method	Proposed allowable cut Scribner rule MM Bd.Ft.
Von Mantel Formula	29.2
Rotation Age plus	33.9
All trees 20" and over d.b.h.	51.9
All designated 'live remove' trees	53.0
Removal of all trees needed to place stands in best growing condition	56.2
Equated to measured growth	20.1
Equated to forecasted growth	26.4

b. Allowable Cut Decision

(1) The decision is to set the annual allowable cut for this plan period at 56.2 MM Board Feet, Scribner Rule, for all sawtimber-size material, 11.0" d.b.h. and larger. Factors which influenced this decision are:

(a) The extreme rate of mortality per year, i.e., 15.6 MM bd. ft.
(b) The preponderance of net volume in the rotation age and older trees, i.e., 24" d.b.h. and over - 678.225 MM bd. ft. These are the trees which are dying to establish the high mortality rate.
(c) The large portion of the net inventory that is in trees 20" - 24" d.b.h., i.e., 359.577 MM bd. ft. These are the trees that would ordinarily be harvested during a seed tree regeneration cut this cutting period.
(d) The condition of the trees and the stands. The trees were condition rated by Foresters during the reinventory. Based on these condition ratings, it is deemed most desirable to harvest all the damaged, diseased, dying, insect-infested, poor quality, and overmature trees, approximately 64% of the inventory of the total net sawtimber size trees. The volume

TABLE 26A

Analysis of Cutting Priorities for the Possible Methods of Determining Allowable Cut for the Sitgreaves Working Circle

Table 26A

Analysis of Cutting Priorities for the Possible Methods of Determining Allowable Cut for the Sitgreaves Working Circle

Growing Stock Components - R-3 Tree Classes -	BASIC ALLOWABLE CUT APPORTIONMENT Applies to all Possible Methods of Determining Allowable Cut: INTERMEDIATE CUTTING Small Sawtimber-11.0" to 15.9" d.b.h. Basically Allocated to Pulpwood	BASIC ALLOWABLE CUT APPORTIONMENT: REGENERATION-REMOVAL CUTTING 16.0" and Over, d.b.h. 2,826 Acres Per Year Required	THE ALLOWABLE CUT "DECISION" - '56.2 MMBM' (5) Removal of all trees needed to place stands in best growing condition: PREPARATORY CUTTING 16.0" and Over, d.b.h.	THE ALLOWABLE CUT "DECISION": TOTAL SAWTIMBER SIZE CUT 11.0" and Over, d.b.h.	(6) EQUATED TO MEASURED GROWTH - '20.1 MMBM': PREPARATORY CUTTING 16.0" and Over, d.b.h.	(6) EQUATED TO MEASURED GROWTH: TOTAL SAWTIMBER SIZE CUT 11.0" and Over, d.b.h.	(7) EQUATED TO FORECASTED GROWTH - '26.4 MMBM': PREPARATORY CUTTING 16.0" and Over, d.b.h.	(7) EQUATED TO FORECASTED GROWTH: TOTAL SAWTIMBER SIZE CUT 11.0" and Over, d.b.h.	(1) VON MANTEL FORMULA - '29.2 MMBM': PREPARATORY CUTTING 16.0" and Over, d.b.h.	(1) VON MANTEL FORMULA: TOTAL SAWTIMBER SIZE CUT 11.0" and Over, d.b.h.	(2) ROTATION AGE AND CLIBER COMPONENT - '33.9 MMBM': 26.0" and Over, d.b.h. PREPARATORY CUTTING 16.0" and Over, d.b.h.	(2) ROTATION AGE AND CLIBER COMPONENT: TOTAL SAWTIMBER SIZE CUT 11.0" and Over, d.b.h.	(3) ALL TREES 20" AND OVER, D.B.H. - '51.9 MMBM': PREPARATORY CUTTING 16.0" and Over, d.b.h.	(3) ALL TREES 20" AND OVER: TOTAL SAWTIMBER SIZE CUT 11.0" and Over, d.b.h.	(4) ALL DESIGNATED 'LIVE REMOVE' TREES - '63.0 MMBM' as determined from the inventory sample: PREPARATORY CUTTING 16.0" and Over, d.b.h.	(4) ALL DESIGNATED: TOTAL SAWTIMBER SIZE CUT 11.0" and Over, d.b.h.
Annual Allowable Cut this Cutting Method	7,569 MBM	12,653 MBM	35,978 MBM			20,222 MBM	6,178 MBM	26,400 MBM	8,978 MBM	29,200 MBM	13,678 MBM	33,900 MBM	31,678 MBM	51,900 MBM	32,778 MBM	53,000 MBM
Possible Allowable Cuts-Intermediate Cutting				55,200 MBM		7,569 MBM		7,569 MBM		7,569 MBM		7,569 MBM		7,569 MBM		7,569 MBM
Removal Cutting				7,569 MBM		12,653 MBM		12,653 MBM		12,653 MBM		12,653 MBM		12,653 MBM		12,653 MBM
Preparatory Cutting				12,653 MBM		None		6,178 MBM		8,978 MBM		13,678 MBM		31,678 MBM		32,778 MBM
20-YEAR HARVEST-Scribner Bd. Ft., Net				35,978 MBM												
Designated 'Live Remove'					Under this											
Poor Risk (PR)	10,374,862	8,051,260	(All) 36,793,902	55,220,024	possible method	18,426,122	(All) 36,793,902	55,220,024	(All) 36,793,902	55,220,024	(All) 36,793,902	55,220,024	(All) 36,793,902	55,220,024	(All) 36,793,902	55,220,024
Dwarfmistletoe Infected (MM)	55,297,320	27,894,060	(All) 108,130,299	191,321,679	of determining	83,191,380	(Part) 89,766,098	169,957,478	(All) 108,130,299	191,321,679	(24"+) 34,489,707	117,681,087	(20"+) 90,514,291	173,705,671	(All) 108,130,299	191,321,679
Overmature (MA)(OM)	3,357,664	108,044,169	(All) 379,433,277	490,835,110	the allowable cut	111,401,833	-	111,401,833	(Part 24"+) 202,276,391	313,678,224	(Part 24"+) 202,276,391	313,678,224	(20"+) 349,003,237	460,405,070	(All) 379,433,277	490,835,110
Poor Form (PF)	27,137,555	12,876,360	(All) 48,301,400	88,315,315	there would	40,013,915	-	40,013,915	-	40,013,915	-	40,013,915	(20"+) 38,859,945	78,873,860	(All) 48,301,400	88,315,315
Poor Growth Characteristics (PO)	21,499,176	15,068,560	(All) 66,787,575	103,355,311	be No	36,567,736	-	36,567,736	-	36,567,736	-	36,567,736	(20"+) 55,690,236	92,257,972	(All) 66,787,575	103,355,311
Lightning Damaged (DL)	945,647	3,175,300	(All) 17,648,004	21,768,951		4,120,947	-	4,120,947	-	4,120,947	-	4,120,947	(20"+) 17,332,082	21,453,029	(Part) 16,113,547	20,234,494
Animal Damaged (DA)	11,354,284	2,932,360	(All) 5,842,154	20,128,798	Preparatory	14,286,644	-	14,286,644	-	14,286,644	-	14,286,644	(20"+) 4,003,845	18,290,489	-	14,286,644
Rodent Damaged (DR)	339,985	1,977,500	(All) 11,250,587	13,568,072		2,317,485	-	2,317,485	-	2,317,485	-	2,317,485	(20"+) 10,947,773	13,245,258	-	2,317,485
Fire Damaged (DF)	1,030,229	401,160	(All) 1,340,104	2,771,493	Cutting.	1,431,389	-	1,431,389	-	1,431,389	-	1,431,389	(20"+) 1,340,104	2,771,493	-	1,431,389
Mechanically Damaged (DM)	4,308,246	1,819,300	(All) 6,349,756	12,477,302		6,127,546	-	6,127,546	-	6,127,546	-	6,127,546	(20"+) 3,231,714	9,359,260	-	6,127,546
Other Insect Damaged (OI)	536,164	508,500	(All) 2,454,224	3,498,888	All Allowable	1,044,664	-	1,044,664	-	1,044,664	-	1,044,664	(20"+) 1,783,696	2,828,360	-	1,044,664
Topper (TO)	-	463,300	(All) 2,698,367	3,161,667		463,300	-	463,300	-	463,300	-	463,300	(20"+) 2,698,367	3,161,667	-	463,300
Thinner (TH)	16,198,868	6,245,340	(All) 32,520,351	53,974,559	Cut is allocated	21,444,208	-	21,444,208	-	21,444,208	-	21,444,208	(20"+) 14,286,774	35,730,982	-	21,444,208
	151,380,000	189,457,169	719,560,000	1,080,397,169		340,837,169	123,560,000	464,397,169	179,560,000	520,397,169	273,560,000	614,397,169	626,465,966	967,303,135	655,560,000	996,397,169
Designated 'Live Retain'					either to											
Dwarfmistletoe Infected (MM)	-	21,055,026	-	21,055,026		21,055,026	-	21,055,026	-	21,055,026	-	21,055,026	(Part) -	21,055,026	-	21,055,026
Mature (MA)	-	412,175	-	412,175	Intermediate	412,175	-	412,175	-	412,175	-	412,175	(20"+) 7,094,034	7,506,209	-	412,175
Poor Growth Characteristics (PO)	-	25,160,456	-	25,160,456		25,160,456	-	25,160,456	-	25,160,456	-	25,160,456	-	25,160,456	-	25,160,456
Animal Damaged (DA)	-	4,806,676	-	4,806,676	Cutting or	4,806,676	-	4,806,676	-	4,806,676	-	4,806,676	-	4,806,676	-	4,806,676
Rodent Damaged (DR)	-	309,828	-	309,828		309,828	-	309,828	-	309,828	-	309,828	-	309,828	-	309,828
Fire Damaged (DF)	-	1,133,564	-	1,133,564	to Removal	1,133,564	-	1,133,564	-	1,133,564	-	1,133,564	-	1,133,564	-	1,133,564
Mechanically Damaged (DM)	-	2,368,664	-	2,368,664		2,368,664	-	2,368,664	-	2,368,664	-	2,368,664	-	2,368,664	-	2,368,664
Insect Infested (DI)	-	7,855,288	-	7,855,288		7,855,288	-	7,855,288	-	7,855,288	-	7,855,288	-	7,855,288	-	7,855,288
Thinner (TH)	-	501,134	-	501,134	Cutting	501,134	-	501,134	-	501,134	-	501,134	-	501,134	-	501,134
	-	63,602,831	-	63,602,831		63,602,831	-	63,602,831	-	63,602,831	-	63,602,831	7,094,034	70,696,865	-	63,602,831
	151,380,000	253,060,000	719,560,000	1,124,000,000	-	404,440,000	123,560,000	528,000,000	179,560,000	584,000,000	273,560,000	678,000,000	633,560,000	1,038,000,000	655,560,000	1,060,000,000

Table 26B

Comparison Summary of Mortality, Cut, and Growing Stock Level Projections
Sitgreaves Working Circle

Cutting Period ---- Item	(5) The Allowable Cut "Decision" '56.2 MMBM'	(6) Equated to Measured Growth '20.1 MMBM'	(7) Equated to Forecasted Growth '26.4 MMBM'	(1) Based on Von Mantel's Formula '29.2 MMBM'	(2) Based on Rotation Age and Older Component '24.0" and Over, D.B.H. '33.9 MMBM'	(3) Based on All Trees 20" and Over, D.B.H. Component '51.9 MMBM'	(4) Based on All Designated 'Live Remove' Trees Component, '53.0 MMBM'	(5) The Allowable Cut "Decision" '56.2 MMBM'	(6) Equated to Measured Growth '20.1 MMBM'	(7) Equated to Forecasted Growth '26.4 MMBM'	(1) Based on Von Mantel's Formula '29.2 MMBM'	(2) Based on Rotation Age and Older Component '24.0" and Over, D.B.H. '33.9 MMBM'	(3) Based on All Trees 20" and Over, D.B.H. Component '51.9 MMBM'	(4) Based on All Designated 'Live Remove' Trees Component '53.0 MMBM'
	M Scribner Board Feet							M Cubic Feet						
Beginning Inventory	1,754,184	1,754,184	1,754,184	1,754,184	1,754,184	1,754,184	1,754,184	520,639	520,639	520,639	520,639	520,639	520,639	520,639
F.Y. 1967-F.Y. 1986														
Growth	369,003	369,003	369,003	369,003	369,003	369,003	369,003	261,211	261,211	261,211	261,211	261,211	261,211	261,211
Cut	1,124,000	404,440	528,000	584,000	678,000	1,038,000	1,060,000	312,420	148,280	176,460	189,220	210,660	292,780	297,260
Mortality	154,254	288,280	273,680	255,220	237,840	171,480	167,480	39,826	74,640	70,860	66,060	61,560	44,300	43,220
Growing Stock	844,933	1,430,467	1,321,507	1,283,967	1,207,347	913,707	895,707	429,604	558,930	534,530	526,570	509,630	444,770	441,370
F.Y. 1987-F.Y. 2006														
Growth	739,274	739,274	739,274	739,274	739,274	739,274	739,274	358,156	358,156	358,156	358,156	358,156	358,156	358,156
Cut	430,000	422,360	500,000	492,400	434,980	430,180	439,680	277,680	268,140	247,840	245,220	233,180	254,840	241,040
Mortality	13,939	182,073	172,853	161,173	150,193	95,293	46,533	3,481	47,112	44,772	41,692	38,872	31,612	11,992
Growing Stock	1,140,268	1,565,308	1,387,928	1,369,668	1,361,448	1,127,508	1,148,768	506,599	601,834	600,074	597,814	595,734	516,474	546,494
F.Y. 2007-F.Y. 2026														
Growth	994,383	994,383	994,383	994,383	994,383	994,383	994,383	382,340	382,340	382,340	382,340	382,340	382,340	382,340
Cut	451,500	520,000	509,540	500,000	500,000	440,000	460,000	280,000	300,000	300,000	300,000	300,000	260,000	280,000
Mortality	-	98,620	93,620	87,300	81,380	38,740	-	-	25,520	24,240	22,620	21,060	9,980	-
Growing Stock	1,683,151	1,941,071	1,779,151	1,776,751	1,774,451	1,643,151	1,683,151	608,939	658,654	658,174	657,534	657,014	628,834	648,834
F.Y. 2027-F.Y. 2046														
Growth	1,234,909	1,234,909	1,234,909	1,234,909	1,234,909	1,234,909	1,234,909	401,477	401,477	401,477	401,477	401,477	401,477	401,477
Cut	480,000	560,000	520,000	520,000	520,000	440,000	480,000	300,000	320,000	320,000	320,000	320,000	300,000	320,000
Mortality	-	37,920	36,000	33,600	31,300	-	-	-	9,820	9,340	8,700	8,180	-	-
Growing Stock	2,438,060	2,578,060	2,458,060	2,458,060	2,458,060	2,438,060	2,438,060	710,416	730,311	730,311	730,311	730,311	730,311	730,311
F.Y. 2047-F.Y. 2066														
Growth	1,321,131	1,321,131	1,321,131	1,321,131	1,321,131	1,321,131	1,321,131	407,695	407,695	407,695	407,695	407,695	407,695	407,695
Cut	520,000	660,000	540,000	540,000	540,000	520,000	520,000	340,105	360,000	360,000	360,000	360,000	360,000	360,000
Desired Growing Stock	3,239,191	3,239,191	3,239,191	3,239,191	3,239,191	3,239,191	3,239,191	778,006	778,006	778,006	778,006	778,006	778,006	778,006
100-Year Summaries														
Growth	4,658,700	4,658,700	4,658,700	4,658,700	4,658,700	4,658,700	4,658,700	1,810,879	1,810,879	1,810,879	1,810,879	1,810,879	1,810,879	1,810,879
Cut	3,005,500	2,566,800	2,597,540	2,636,400	2,672,980	2,868,180	2,959,680	1,510,205	1,396,420	1,404,300	1,414,440	1,423,840	1,467,620	1,498,300
Mortality	168,193	606,893	576,153	537,293	500,713	305,513	214,013	43,307	157,092	149,212	139,072	129,642	85,892	55,212
(Sawtimber Portion)								(30,034)	(108,373)	(102,884)	(95,944)	(89,412)	(54,555)	(38,216)
Sustained Annual Cut and Growth	68,725	68,725	68,725	68,725	68,725	68,725	68,725	20,471	20,471	20,471	20,471	20,471	20,471	20,471
Percent of Total Cut Decrease	-	14.60%	13.57%	12.28%	11.06%	4.57%	1.52%	-	7.53%	7.01%	6.34%	5.72%	2.82%	0.79%
Percent of Total Mortality Increase	-	260.83%	242.55%	219.45%	197.70%	81.16%	27.24%	-	262.74%	244.54%	221.13%	199.36%	98.33%	27.49%
Projected Dollar Income Loss to Government Because of Additional Mortality ($8 Per M Bd.Ft.) ($27 Per M Cu.Ft.)	-	$3,509,600	$3,263,680	$2,952,800	$2,660,160	$1,098,560	$ 366,560	Other than Sawtimber-	$ 957,042	$ 892,485	$ 806,085	$ 727,839	$ 487,728	$ 100,521
								Total-	$4,466,642	$4,156,165	$3,758,885	$3,387,999	$1,586,288	$ 467,081

is 1,123.589 MM bd. ft. If harvested in the 20-year cutting period, the annual allowable cut is 56.2 MM bd. ft.

(e) There is more than adequate mill capacity to handle this allowable cut. For the period C. Y. 1955 through C. Y. 1965 the yearly average sawtimber product measured cut has been 53.534 MM bd. ft., 4.74% under the 56.2 MM bd. ft. allowable cut. Including an estimated additional 12% for waste, cut but not measured, the annual cut was 59.958 MM bd. ft., 6.69% over the allowable cut.

(f) The existing mill capacity is principally equipped to handle large sawtimber size logs.

(g) The demand from industry for sawtimber product sales has been steady to increasing. Competition for sales between mills has increased.

(2) This projected cutting rate far exceeds the current board foot growth rate. Before the decision to continue the 56.2 MM bd. ft. allowable cut was made, projections of growth, mortality, cut, and growing stock levels were prepared.

When the 56.2 MM bd. ft. cut is projected for a full 20-year cutting period, the board feet growing stock is reduced from 1,754.184 MM bd. ft. to a low of 844.933 MM bd. ft., a 52% reduction. However, the reduction in cubic feet growing stock is only from 520.639 MM cubic feet to a low of 429.604 MM cubic feet, an 18% reduction.

After the necessary portion of the sawtimber size growing stock has been harvested this cutting period, it becomes necessary to schedule a major reduction in the allowable cut rate, down to 21.0 MM bd. ft. per year, a 63% reduction. A smaller reduction would be necessary in the total cubic feet allowable cut, from 15.621 MM cubic feet per year down to 13.884 MM cubic feet per year, an 11% reduction.

(3) The projections for growth and growing stock levels are based on full management to desired basal area stocking levels, particularly those stands which are regenerated each 20-year period. As fully as possible, proper stocking levels are to be reached on all other stand areas by manipulation of the existing growing stock.

For an 80-year period the reduced rate sawtimber harvest will consist principally of yields from thinning and stand tending cuttings and will have only minor yields from seed tree and removal cuttings. At the end of the 80-year period a full age class area will reach rotation age and be completely harvested in seed tree and removal cutting. This harvest plus the stand tending harvest

from other age class areas will jump the sawtimber size allowable cut to 68.725 MM bd. ft. per year. This would be the sustained allowable cut level under full management.

(4) Because the current cubic foot growing stock level is much closer to the future desired level, the growth rate approaches the desired level in about 40 years after the heavy cuts planned for this cutting period. If the market demand in 60 years has shifted from boards to fiber, this working circle could be considered nearly properly stocked at that time.

(5) The current effective sawtimber size annual allowable cut totals 65.630 MM bd. ft. The annual allowable cut for this plan period is 56.2 MM bd. ft. This is a reduction of 9.430 MM bd. ft. per year. Under the past management plans the total annual allowable cut for sawtimber products was set at 56.2 MM bd. ft. For this plan period the annual allowable cut established for sawtimber products is 48.631 MM bd. ft., a reduction of 7.569 MM bd. ft. per year. This reduction of 7.569 MM bd. ft. per year is that portion of the sawtimber size allowable cut which will most likely be harvested as pulpwood.

(6) At the end of this plan period it may be more desirable to program another step down in the sawtimber product annual allowable cut rather than continuing with the 48.631 MM bd. ft. cut. However, a decision to make another stepdown at that time would depend upon the results of the reinventory from which stand and tree conditions and volumes could be determined. A review of compartment prescriptions would be needed also.

(7) It is apparent that industry must slowly convert the bulk of its production from a sawtimber economy to a small product and/or fiber economy. By carrying the projected cut of 48.631 MM bd. ft. per year for the full 20-year cutting period, not only are the timber stands placed in better growing condition but also industry is given a suitable period to prepare for the future major reduction in sawtimber size annual allowable cut.

c. Computation of Allocation of Volume Allowable Cut

Table 27

Site	Net Average Volume Per Acre Bd. Ft.	Districts: Chevelon Acres	Chevelon Volume MBM	Heber Acres	Heber Volume MBM	Lakeside Acres	Lakeside Volume MBM	Pinedale Acres	Pinedale Volume MBM	Working Circle Totals Acres	Working Circle Totals Volume MBM
Volume to Cut on Regeneration Areas in Removal Cuts											
Technical Working Group											
I	9,777	37	362	17	166	5	49	3	29	62	606
II	4,803	321	1,542	734	3,525	355	1,705	401	1,926	1,811	8,698
III	3,060	125	383	263	805	121	370	205	627	714	2,185
Summary		483	2,287	1,014	4,496	481	2,124	609	2,582	2,587	11,489
					+1,947				-1,947		
					6,443				635		
Administrative Working Group											
I	9,777	8	79	3	29	4	39	0	-	15	147
II	4,803	41	197	111	533	27	130	13	62	192	922
III	3,060	7	21	7	22	14	43	3	9	31	95
Summary		56	297	121	584	45	212	16	71	238	1,164
					+ 46				- 46		
					630				25		
Total			2,584		7,073		2,336		660		12,653

Small Sawtimber Cut - Portion Allocated to Preparatory Cutting 11.0" through 15.9" d.b.h.

Total to cut in 11.0" - 15.9" d.b.h. size range 151,382 MBM ÷ 20 years = 7,569 MBM

	% of Allowable Cut	Volume MBM	% of Allowable Cut	Volume MBM	% of Allowable Cut	Volume MBM	% of Allowable Cut	Volume MBM	% of Total Volume	Volume MBM
Technical Working Group	37.37	2,490	48.93	3,260	10.14	676	3.56	237	88.03	6,663
Administrative Working Group	37.37	339	48.93	443	10.14	92	3.56	32	11.97	906
		2,829		3,703		768		269		7,569
Total Sawtimber Cut - Allocated to Districts										
(Percents determined on basis of volume)	37.37	21,000	48.93	27,500	10.14	5,700	3.56	2,000	-	56,200
Technical Working Group	90.39	18,981	85.49	23,510	87.45	4,985	96.24	1,924	87.90	49,400
Administrative Working Group	9.61	2,019	14.51	3,990	12.55	715	3.76	76	12.10	6,800
Preparatory Sawtimber Cut in 16.0" and over d.b.h. sizes										
Technical Working Group										
Total Allowable Cut		18,981		23,510		4,985		1,924		49,400
Minus Removal Cut		2,287		6,443		2,124		635		11,489
Minus Small Sawtimber Cut		2,490		3,260		676		237		6,663
Large Sawtimber Preparatory Cut		14,204		13,807		2,185		1,052		31,248
Administrative Working Group										
Total Allowable Cut		2,019		3,990		715		76		6,800
Minus Removal Cut		297		630		212		25		1,164
Minus Small Sawtimber Cut		339		443		92		32		906
Large Sawtimber Preparatory Cut		1,383		2,917		411		19		4,730
Total		15,587		16,724		2,596		1,071		35,978

Calculation of Pulpwood (5.0" - 10.9" d.b.h.) Allowable Cut

Total to cut is 56,046,268 Net Cu. Ft.
Cu. Ft. per cord ÷ 72
778,420 Cords
Cut in 20 years ÷ 20
Cut per year 38,921 Cords

Allocated to Districts on basis of cu. ft. volume in 5.0"-10.9" d.b.h. size range	% of Volume	Volume in Cords	% of Volume	Volume in Cords	% of Volume	Volume in Cords	% of Volume	Volume in Cords	-	Volume in Cords
	24.36	9,481	36.22	14,097	16.40	6,383	23.02	8,960	-	38,921

Table 27 (continued)

Site	Net Average Volume Per Acre Bd. Ft.	Districts: Chevelon Acres	Chevelon Volume MBM	Heber Acres	Heber Volume MBM	Lakeside Acres	Lakeside Volume MBM	Pinedale Acres	Pinedale Volume MBM	Working Circle Totals Acres	Working Circle Totals Volume MBM
Calculation of Roundwood in Sawtimber Tops - Allowable Cut											
Total Net Volume - Scribner Bd. Ft.						1,754,183,636					
Convert to Cubic Feet						.1786					
						313,297,197					
Total Volume of Sawtimber Trees in Cubic Feet						400,073,243					
Minus Volume in Sawlog Portion in Cubic Feet						313,297,197					
Volume in Tops in Cubic Feet						86,776,046		86,776,046			
72 Cubic Feet Per Cord						÷ 72					
Volume in Tops in Cords						1,205,223					
Estimate 50% is Recoverable						.50		.50			
						602,612 Cords		43,388,023 Cu. Ft.			
64% of Sawtimber to be cut in 20 Years						.64		.64			
Total Cords Available						385,672 Cords		27,768,335 Cu. Ft.			
20-Year Cutting Period						÷ 20		÷ 20			
Cords Available Per Year						19,284 Cords		1,388,417 Cu. Ft.			
22.57% is Removal Cut						22.57%		22.57%			
Removal Cut Portion						4,352 Cords		313,366 Cu. Ft.			
Preparatory Cut Portion						14,932 Cords		1,075,051 Cu. Ft.			
Allocated to Districts on basis of percent of total allowable cut	% of Allowable Cut	Volume in Cords	% of Allowable Cut	Volume in Cords	% of Allowable Cut	Volume in Cords	% of Allowable Cut	Volume in Cords	-	Volume in Cords
	37.37	7,206	48.93	9,436	10.14	1,955	3.56	687		19,284
22.57% is Removal Cut		22.57%		22.57%		22.57%		22.57%		22.57%
Removal Cut Portion		1,626		2,130		441		155		4,352
Preparatory Cut Portion		5,580		7,306		1,514		532		14,932
	% of Allowable Cut	Volume in Cu.Ft.	% of Allowable Cut	Volume in Cu.Ft.	% of Allowable Cut	Volume in Cu.Ft.	% of Allowable Cut	Volume in Cu.Ft.	-	Volume in Cu.Ft.
	37.37	519	48.93	679	10.14	141	3.56	49		1,388
22.57% is Removal Cut		22.57%		22.57%		22.57%		22.57%		22.57%
Removal Cut Portion		117		153		32		11		313
Preparatory Cut Portion		402		526		109		38		1,075
Unregulated Cut										
Total Operable Stocked Acres	107,185		142,888		63,635		73,811		387,519	
Minus Total Regulated Acres	5,893		7,301		3,329		3,813		20,336	
Acres on which to Cut Mortality	101,292		135,587		60,306		69,998		367,183	
Bd. Ft. Mortality Per Acre	40.28		40.28		40.28		40.28		40.28	
Salvage Cut		4,080		5,461		2,429		2,820		14,790
Minus Administrative Working Group Adjustment		490		655		292		338		1,775
Adjusted Salvage Cut		3,590		4,806		2,137		2,482		13,015

Table 28

Site	Net Average Volume Per Acre Bd. Ft.	County-District Units: Heber-Coconino Acres	Heber-Coconino Volume MBM	Heber-Navajo Acres	Heber-Navajo Volume MBM	Lakeside-Apache Acres	Lakeside-Apache Volume MBM	Lakeside-Navajo Acres	Lakeside-Navajo Volume MBM
Volume to Cut on Regeneration Areas in Removal Cuts									
Technical Working Group									
I	9,777	14	137	3	29	4	39	1	10
II	4,803	277	1,330	457	2,195	207	994	148	711
III	3,060	73	223	190	582	53	162	68	208
Summary		364	1,690	650	2,806	264	1,195	217	929
(Increase on Heber Block;)- (transferred from Pinedale Block)		(36%)	+ 701 2,391	(64%)	+ 1,246 4,052				
Administrative Working Group									
I	9,777	2	19	1	10	4	39	-	-
II	4,803	70	336	41	197	5	24	22	106
III	3,060	3	9	4	13	1	3	13	40
Summary		75	364	46	220	10	66	35	146
(Increase on Heber Block,)- (transferred from Pinedale Block)		(62%)	+ 29 393	(38%)	+ 17 237				
Total			2,784		4,289		1,261		1,075
Small Sawtimber Cut - Portion Allocated to Preparatory Cutting 11.0" through 15.9" d.b.h.		% of Allowable Cut	Volume MBM	% of Allowable Cut	Volume MBM	% of Allowable Cut	Volume MBM	% of Allowable Cut	Volume MBM
Technical Working Group		43.46	1,417	56.54	1,843	54.30	367	45.70	309
Administrative Working Group		43.46	193	56.54	250	54.30	50	45.70	42
			1,610		2,093		417		351
Total Sawtimber Cut - Allocated to County-District Units									
(Percents determined on basis of volume)		43.46	11,952	56.54	15,548	54.30	3,095	45.70	2,605
Technical Working Group		37.91	8,913	62.09	14,597	58.31	2,907	41.69	2,078
Administrative Working Group		76.16	3,039	23.84	951	26.29	188	73.71	527
Preparatory Sawtimber Cut in 16.0" and over d.b.h. sizes									
Technical Working Group									
Total Allowable Cut			8,913		14,597		2,907		2,078
Minus Removal Cut			2,391		4,052		1,195		929
Minus Small Sawtimber Cut			1,417		1,843		367		309
Large Sawtimber Preparatory Cut			5,105		8,702		1,345		840
Administrative Working Group									
Total Allowable Cut			3,039		951		188		527
Minus Removal Cut			393		237		66		146
Minus Small Sawtimber Cut			193		250		50		42
Large Sawtimber Preparatory Cut			2,453		464		72		339
Total			7,558		9,166		1,417		1,179
Calculation of Pulpwood (5.0" - 10.9" d.b.h.) Allowable Cut									
Allocated to County-District Units on basis of cubic feet volume in 5.0"-10.9" d.b.h. size range		% of Volume	Volume in Cords	% of Volume	Volume in Cords	% of Volume	Volume in Cords	% of Volume	Volume in Cords
		40.82	5,754	59.18	8,343	50.24	3,207	49.76	3,176
Calculation of Roundwood in Sawtimber Tops - Allowable Cut - Cords									
Allocated to County-District Units on basis of percent of total Allowable Cut		% of Allowable Cut	Volume in Cords	% of Allowable Cut	Volume in Cords	% of Allowable Cut	Volume in Cords	% of Allowable Cut	Volume in Cords
		43.46	4,101	56.54	5,335	54.30	1,062	45.70	893
22.57% is Removal Cut			22.57%		22.57%		22.57%		22.57%
Removal Cut Portion			926		1,204		240		201
Preparatory Cut Portion			3,175		4,131		822		692
Volume in M Cubic Feet									
		43.46	295	56.54	384	54.30	77	45.70	64
22.57% is Removal Cut			22.57%		22.57%		22.57%		22.57%
Removal Cut Portion			66		87		18		14
Preparatory Cut Portion			229		297		59		50
Unregulated Cut									
Total Operable Stocked Acres		57,591		85,297		31,958		31,677	
Minus Total Regulated Acres		2,936		4,365		1,680		1,649	
Acres on which to cut Mortality		54,655		80,932		30,278		30,028	
Bd. Ft. Mortality Per Acre		40.28		40.28		40.28		40.28	
Salvage Cut			2,201		3,260		1,220		1,209
Minus Administrative Working Group Adjustment			264		391		147		145
Adjusted Salvage Cut			1,937		2,869		1,073		1,064

3. Estimated Future Stand Structure of Sitgreaves Working Circle Under Managed Conditions

Table 29

Site Quality Class	Average Site Index	Age Class	Acres	Optimum Basal Area	Estimated Size of Average Tree				No. of Trees Per Acre	Scribner Bd. Ft. Volume Per Acre	Cu.Ft. Volume Per Acre	Working Circle Volumes		Growth Per Acre		Growth Per Working Circle	
					D.B.H. Inches	Height Feet	Scribner Bd. Ft. Volume	Cubic Feet Volume				Scribner Board Feet	Cubic Feet	Scribner Board Feet	Cubic Feet	Scribner Board Feet	Cubic Feet
Technical Working Group																	
I	90	1-20	1,237	-	5	20	-	0.87	480	-	418	-	517,066	-	110	-	136,070
		21-40	1,237	87	8	40	-	4.91	249	-	1,226	-	1,516,562	-	102	-	126,174
		41-60	1,237	120	11	60	47	14.3	182	8,554	2,603	10,581,298	3,219,911	360	72	445,320	89,064
		61-80	1,237	121	15	70	133	32.5	99	13,167	3,218	16,287,579	3,980,666	470	52	581,390	64,324
		81-100	1,237	121	19	80	308	60.5	62	19,096	3,751	23,621,752	4,639,987	435	42	538,095	51,954
		100-120	1,236	121	23	90	576	100	42	24,192	4,200	29,901,312	5,191,200	375	32	463,500	39,552
			7,421									80,391,941	19,065,392			2,028,305	507,138
II	75	1-20	43,996	-	5	15	-	0.65	400	-	260	-	11,438,960	-	85	-	3,739,660
		21-40	43,996	75	8	30	-	3.63	215	-	780	-	34,316,880	-	80	-	3,519,680
		41-60	43,996	108	11	50	36	11.5	164	5,904	1,886	259,752,384	82,976,456	165	57	7,259,340	2,507,772
		61-80	43,996	109	14	60	93	23.9	102	9,486	2,438	417,346,056	107,262,248	297	45	13,066,812	1,979,820
		81-100	43,996	109	18	70	218	47.2	62	13,516	2,926	594,649,936	128,732,296	340	35	14,958,640	1,539,860
		100-120	43,996	109	22	80	448	81.2	41	18,368	3,329	808,118,528	146,462,684	310	26	13,638,760	1,143,896
			263,976									2,079,866,904	511,189,524			48,923,552	14,430,688
III	60	1-20	14,289	-	4	10	-	0.34	380	-	129	-	1,843,281	-	60	-	857,340
		21-40	14,289	60	7	20	-	1.79	224	-	401	-	5,729,889	-	57	-	814,473
		41-60	14,289	95	9	35	-	5.39	215	-	1,159	-	16,560,951	-	50	-	714,450
		61-80	14,289	96	12	50	48	14.0	122	5,856	1,708	83,676,384	24,405,612	145	32	2,071,905	457,248
		81-100	14,289	96	16	60	128	31.5	69	8,832	2,174	126,200,448	31,064,286	215	25	3,072,135	357,225
		100-120	14,289	96	20	65	265	54.1	44	11,660	2,380	166,609,740	34,007,820	235	25	3,357,915	357,225
			85,734									376,486,572	113,611,839			8,501,955	3,557,961
Working Group Summary -			357,131									2,536,745,417	643,866,755			59,453,812	18,495,787
Administrative Working Group																	
I	90	1-20	303	-	5	20	-	0.87	480	-	418	-	126,654	-	110	-	33,330
		21-40	303	87	8	40	-	4.91	249	-	1,226	-	371,478	-	102	-	30,906
		41-60	303	120	11	60	47	14.3	182	8,554	2,603	2,591,862	788,709	360	72	109,080	21,816
		61-80	303	121	15	70	133	32.5	99	13,167	3,218	3,989,601	975,054	470	52	142,410	15,756
		81-100	303	121	19	80	308	60.5	62	19,096	3,751	5,786,088	1,136,553	435	42	131,805	12,726
		101-120	303	121	23	90	576	100	42	24,192	4,200	7,330,176	1,272,600	375	32	113,625	9,696
←		121-140	304	121	26	100	861	142	33	28,413	4,686	8,637,552	1,424,544	310	27	94,240	8,208
		141-160	304	121	29	110	1,215	195	26	31,590	5,070	9,603,360	1,541,280	260	25	79,040	7,600
		161-180	304	121	32	120	1,646	259	22	36,212	5,698	11,008,448	1,732,192	220	20	66,880	6,080
		181-200	304	121	35	125	2,073	322	18	37,314	5,796	11,343,456	1,761,984	185	20	56,240	6,080
			3,034									60,290,543	11,131,048			793,320	152,198
II	75	1-20	4,045	-	5	15	-	0.65	400	-	260	-	1,051,700	-	85	-	343,825
		21-40	4,045	75	8	30	-	3.63	215	-	780	-	3,155,100	-	80	-	323,600
		41-60	4,045	108	11	50	36	11.5	164	5,904	1,886	23,881,680	7,628,870	165	57	667,425	230,565
		61-80	4,045	109	14	60	93	23.9	102	9,486	2,438	38,370,870	9,861,710	297	45	1,201,365	182,025
		81-100	4,045	109	18	70	218	47.2	62	13,516	2,926	54,672,220	11,835,670	340	35	1,375,300	141,575
		101-120	4,045	109	22	80	448	81.2	41	18,368	3,329	74,298,560	13,465,805	310	26	1,253,950	105,170
		121-140	4,045	109	25	85	653	111	32	20,896	3,552	84,524,320	14,367,840	250	22	1,011,250	88,990
		141-160	4,044	109	28	90	901	148	25	22,525	3,700	91,091,100	14,962,800	205	20	829,020	80,880
		161-180	4,044	109	30	100	1,177	189	22	25,894	4,158	104,715,336	16,814,952	177	17	715,788	68,748
		181-200	4,044	109	32	105	1,425	226	20	28,500	4,520	115,254,000	18,278,880	162	17	655,128	68,748
			40,447									586,808,086	111,423,327			7,709,226	1,634,126
III	60	1-20	610	-	4	10	-	0.34	380	-	129	-	78,690	-	60	-	36,600
		21-40	610	60	7	20	-	1.79	224	-	401	-	244,610	-	57	-	34,770
		41-60	610	95	9	35	-	5.39	215	-	1,159	-	706,990	-	50	-	30,500
		61-80	610	96	12	50	48	14.0	122	5,856	1,708	3,572,160	1,041,880	145	32	88,450	19,520
		81-100	610	96	16	60	128	31.5	69	8,832	2,174	5,387,520	1,326,140	215	25	131,150	15,250
		101-120	610	96	20	65	265	54.1	44	11,660	2,380	7,112,600	1,451,800	235	25	143,350	15,250
		121-140	610	96	23	70	422	77.4	33	13,926	2,554	8,494,860	1,557,940	210	20	128,100	12,200
		141-160	610	96	26	73	597	103	26	15,522	2,678	9,468,420	1,633,580	170	15	103,700	9,150
		161-180	610	96	28	77	754	127	22	16,588	2,794	10,118,680	1,704,340	150	15	91,500	9,150
		181-200	609	96	30	80	919	151	20	18,380	3,020	11,193,420	1,839,180	135	10	82,215	6,090
			6,099									55,347,660	14,585,150			768,465	188,480
Working Group Summary -			49,580									702,446,289	134,139,525			9,271,011	1,974,804
Working Circle Summary -			406,711									3,239,191,706	778,006,280			68,724,823	20,470,591
												7,964/Acre	1,913/Acre			169/Acre	50/Acre

4. Projections for Cut, Mortality, and Growth by Cutting Periods

a. Cutting Period F.Y. 1967-1986

Table 30

Cubic Feet Projections for Cut, Mortality, and Growth for Cutting Period F.Y. 1967-1986

Sitgreaves Working Circle

Fiscal Year	Beginning Acreage (Operable, Stocked)	Minus Acreage Cutover Per Year	Acreage on which to Compute Mortality	Cu. Ft. Mortality Per Acre Per Year	Accelerated Mortality Per Working Circle M Cu. Ft.	Acreage on Which Reduced Mortality Rate Would Apply	Cu. Ft. Reduced Mortality Rate Per Acre Per Year	Reduced Rate Mortality Per Working Circle M Bd.Ft.	Total Mortality Per Working Circle M Bd.Ft.	Beginning Acreage (Operable, Stocked)	Minus Acreage Regenerated Per Year	Acreage on Which to Compute Growth	Cu. Ft. Growth Per Acre Per Year	Growth Per Working Circle M Cu. Ft.
1967	387,519	20,336	367,183	10.43	3,830	-	1	-	3,830	387,519	2,825	384,694	35	13,464
1968	367,183	20,336	346,847	10.43	3,618	17,511	1	18	3,636	384,694	2,825	381,869	35	13,365
1969	346,847	20,336	326,511	10.43	3,406	35,022	1	35	3,441	381,869	2,825	379,044	35	13,267
1970	326,511	20,336	306,175	10.43	3,193	52,533	1	53	3,246	379,044	2,825	376,219	35	13,168
1971	306,175	20,336	285,839	10.43	2,981	70,044	1	70	3,051	376,219	2,825	373,394	35	13,069
1972	285,839	20,336	265,503	10.43	2,769	87,555	1	88	2,857	373,394	2,825	370,569	36	13,340
1973	265,503	20,336	245,167	10.43	2,557	105,066	1	105	2,662	370,569	2,825	367,744	36	13,239
1974	245,167	20,336	224,831	10.43	2,345	122,577	1	123	2,468	367,744	2,825	364,919	36	13,137
1975	224,831	20,336	204,495	10.43	2,133	140,088	1	140	2,273	364,919	2,825	362,094	36	13,035
1976	204,495	20,336	184,159	10.43	1,921	157,599	1	158	2,079	362,094	2,825	359,269	36	12,934
1977	184,159	20,336	163,823	10.43	1,709	175,110	1	175	1,884	359,269	2,825	356,444	37	13,188
1978	163,823	20,336	143,487	10.43	1,497	192,621	1	193	1,690	356,444	2,825	353,619	37	13,084
1979	143,487	20,336	123,151	10.43	1,284	210,132	1	210	1,494	353,619	2,825	350,794	37	12,979
1980	123,151	20,336	102,815	10.43	1,072	227,643	1	228	1,300	350,794	2,825	347,969	37	12,875
1981	102,815	20,336	82,479	10.43	860	245,154	1	245	1,105	347,969	2,825	345,144	37	12,770
1982	82,479	20,336	62,143	10.43	648	262,665	1	263	911	345,144	2,825	342,319	38	13,008
1983	62,143	20,336	41,807	10.43	436	280,176	1	280	716	342,319	2,825	339,494	38	12,901
1984	41,807	20,336	21,471	10.43	224	297,687	1	298	522	339,494	2,825	336,669	38	12,793
1985	21,471	20,336	1,135	10.43	12	315,198	1	315	327	336,669	2,825	333,844	38	12,686
1986	1,135	1,135	-	-	-	332,709	1	333	333	333,844	2,825	331,003	39	12,909
						350,195	1	350	350					

Mortality per acre sawtimber size material	7.19 cu. ft.
Increased by 127.72% for topwood	127.72
	9.18 cu. ft.
Estimated mortality per acre below sawtimber size	1.25 cu. ft.
	10.43 cu. ft.

Table 31

Board Feet Projections for Cut, Mortality, and Growth for Cutting Period F.Y. 1967-1986

Sitgreaves Working Circle

Fiscal Year	Beginning Acreage (Operable, Stocked)	Minus Acreage Cutover Per Year	Acreage on which to Compute Mortality	Bd. Ft. Mortality Per Acre Per Year	Accelerated Mortality Per Working Circle M Bd. Ft	Acreage on Which Reduced Mortality Rate Would Apply	Bd. Ft. Reduced Mortality Rate Per Acre Per Year	Reduced Rate Mortality Per Working Circle M Bd.Ft.	Total Mortality Per Working Circle M Bd.Ft.	Accumulated Regeneration Acreage	Beginning Acreage (Operable, Stocked)	Minus Acreage Regenerated Per Year	Acreage on Which to Compute Growth	Bd. Ft. Growth Per Acre Per Year	Growth Per Working Circle M Bd. Ft.
1967	387,519	20,336	367,183	40.28	14,790	-	4	-	14,790	2,825	387,519	2,825	384,694	51.57	19,839
1968	367,183	20,336	346,847	40.28	13,971	17,511	4	70	14,041	5,650	384,694	2,825	381,869	51.57	19,693
1969	346,847	20,336	326,511	40.28	13,152	35,022	4	140	13,297	8,475	381,869	2,825	379,044	51.57	19,547
1970	326,511	20,336	306,175	40.28	12,333	52,533	4	210	12,543	11,300	379,044	2,825	376,219	51.57	19,402
1971	306,175	20,336	285,839	40.28	11,514	70,044	4	280	11,794	14,125	376,219	2,825	373,394	51.57	19,256
1972	285,839	20,336	265,503	40.28	10,694	87,555	4	350	11,044	16,950	373,394	2,825	370,569	51.57	19,110
1973	265,503	20,336	245,167	40.28	9,875	105,066	4	420	10,295	19,775	370,569	2,825	367,744	51.57	18,965
1974	245,167	20,336	224,831	40.28	9,056	122,577	4	490	9,546	22,600	367,744	2,825	364,919	51.57	18,819
1975	224,831	20,336	204,495	40.28	8,237	140,088	4	560	8,797	25,425	364,919	2,825	362,094	51.57	18,673
1976	204,495	20,336	184,159	40.28	7,418	157,599	4	630	8,048	28,250	362,094	2,825	359,269	51.57	18,528
1977	184,159	20,336	163,823	40.28	6,599	175,110	4	700	7,299	31,075	359,269	2,825	356,444	51.57	18,382
1978	163,823	20,336	143,487	40.28	5,780	192,621	4	770	6,550	33,900	356,444	2,825	353,619	51.57	18,236
1979	143,487	20,336	123,151	40.28	4,961	210,132	4	841	5,802	36,725	353,619	2,825	350,794	51.57	18,090
1980	123,151	20,336	102,815	40.28	4,141	227,643	4	911	5,052	39,550	350,794	2,825	347,969	51.57	17,945
1981	102,815	20,336	82,479	40.28	3,322	245,154	4	981	4,303	42,375	347,969	2,825	345,144	51.57	17,799
1982	82,479	20,336	62,143	40.28	2,503	262,665	4	1,051	3,554	45,200	345,144	2,825	342,319	51.57	17,653
1983	62,143	20,336	41,807	40.28	1,684	280,176	4	1,121	2,805	48,025	342,319	2,825	339,494	51.57	17,508
1984	41,807	20,336	21,471	40.28	865	297,687	4	1,191	2,056	50,850	339,494	2,825	336,669	51.57	17,362
1985	21,471	20,336	1,135	40.28	46	315,198	4	1,261	1,307	53,675	336,669	2,825	333,844	51.57	17,216
1986	1,135	1,135	-	-	-	332,709	4	1,331	1,331	56,516	333,844	2,825	331,003	51.57	17,070
						350,195	4	1,411	1,411						

b. Cutting Period F.Y. 1987-2006

Table 32

Projections for Growth for Cutting Period F.Y. 1987-2006
Sitgreaves Working Circle

Site Quality Class	Age Class	Growth Per Acre		Growth Per Working Circle		Growth Percent Factor Of Estimated Future Growth		Acres
		Scribner Board Feet	Cubic Feet	Scribner Board Feet	Cubic Feet	Bd.Ft.	Cu.Ft.	
Technical Working Group								
I	1-20	-	110	-	136,070	-	100	1,237
	21-40	-	102	-	126,174	-	100	1,237
	41-60	270	54	333,990	66,798	75	75	1,237
	61-80	310	39	383,470	48,243	66	75	1,237
	81-100	218	32	269,666	39,584	50	75	1,237
	101-120	150	24	185,400	29,664	40	75	1,236
				1,172,526	446,533			7,421
II	1-20	-	85	-	3,739,660	-	100	43,996
	21-40	-	80	-	3,519,680	-	100	43,996
	41-60	124	43	5,455,504	1,891,828	75	75	43,996
	61-80	196	34	8,623,216	1,495,864	66	75	43,996
	81-100	170	26	7,479,320	1,143,896	50	75	43,996
	101-120	124	20	5,455,504	879,920	40	75	43,996
				27,013,544	12,670,848			263,976
III	1-20	-	60	-	857,340	-	100	14,289
	21-40	-	57	-	814,473	-	100	14,289
	41-60	-	38	-	542,982	-	75	14,289
	61-80	96	24	1,371,744	342,936	66	75	14,289
	81-100	108	19	1,543,212	271,491	50	75	14,289
	101-120	94	19	1,343,166	271,491	40	75	14,289
				4,258,122	3,100,713			85,734
Working Group Summary -				32,444,192	16,218,094			357,131
Administrative Working Group								
I	1-20	-	110	-	33,330	-	100	303
	21-40	-	102	-	30,906	-	100	303
	41-60	270	54	81,810	16,362	75	75	303
	61-80	310	39	93,930	11,817	66	75	303
	81-100	218	32	66,054	9,696	50	75	303
	101-120	150	24	45,450	7,272	40	75	303
	121-140	124	20	37,696	6,080	40	75	304
	141-160	104	19	31,616	5,776	40	75	304

Table 32 (continued)

Projections for Growth for Cutting Period F.Y. 1987-2006
Sitgreaves Working Circle

Site Quality Class	Age Class	Growth Per Acre		Growth Per Working Circle		Growth Percent Factor Of Estimated Future Growth		Acres
		Scribner Board Feet	Cubic Feet	Scribner Board Feet	Cubic Feet	Bd.Ft.	Cu.Ft.	
Administrative Working Group (continued)								
I	161-180	88	15	26,752	4,560	40	75	304
	181-200	74	15	22,496	4,560	40	75	304
				405,804	130,359			3,034
II	1-20	-	85	-	343,825	-	100	4,045
	21-40	-	80	-	323,600	-	100	4,045
	41-60	124	43	501,580	173,935	75	75	4,045
	61-80	196	34	792,820	137,530	66	75	4,045
	81-100	170	26	687,650	105,170	50	75	4,045
	101-120	124	20	501,580	80,900	40	75	4,045
	121-140	100	17	404,500	68,765	40	75	4,045
	141-160	82	15	331,608	60,660	40	75	4,044
	161-180	71	13	287,124	52,572	40	75	4,044
	181-200	65	13	262,860	52,572	40	75	4,044
				3,769,722	1,399,529			40,447
III	1-20	-	60	-	36,600	-	100	610
	21-40	-	57	-	34,770	-	100	610
	41-60	-	38	-	23,180	-	75	610
	61-80	96	24	58,560	14,640	66	75	610
	81-100	108	19	65,880	11,590	50	75	610
	101-120	94	19	57,340	11,590	40	75	610
	121-140	84	15	51,240	9,150	40	75	610
	141-160	68	11	41,480	6,710	40	75	610
	161-180	60	11	36,600	6,710	40	75	610
	181-200	54	8	32,886	4,872	40	75	609
				343,986	159,812			6,099
Working Group Summary -				4,519,512	1,689,700			49,580
Working Circle Summary -				36,963,704	17,907,794			406,711

c. Cutting Period F.Y. 2007-2026

Table 33

Projections for Growth for Cutting Period F.Y. 2007-2026
Sitgreaves Working Circle

Site Quality Class	Age Class	Growth Per Acre		Growth Per Working Circle		Growth Percent Factor Of Estimated Future Growth		Acres
		Scribner Board Feet	Cubic Feet	Scribner Board Feet	Cubic Feet	Bd.Ft.	Cu.Ft.	
Technical Working Group								
I	1-20	-	110	-	136,070	-	100	1,237
	21-40	-	102	-	126,174	-	100	1,237
	41-60	360	72	445,320	89,064	100	100	1,237
	61-80	376	42	465,112	51,954	80	80	1,237
	81-100	305	34	377,285	42,058	70	80	1,237
	101-120	225	26	278,100	32,136	60	80	1,236
				1,565,817	477,456			7,421
II	1-20	-	85	-	3,739,660	-	100	43,996
	21-40	-	80	-	3,519,680	-	100	43,996
	41-60	165	57	7,259,340	2,507,772	100	100	43,996
	61-80	238	36	10,471,048	1,583,856	80	80	43,996
	81-100	238	28	10,471,048	1,231,888	70	80	43,996
	101-120	186	21	8,183,256	923,916	60	80	43,996
				36,384,692	13,506,772			263,976
III	1-20	-	60	-	857,340	-	100	14,289
	21-40	-	57	-	814,473	-	100	14,289
	41-60	-	50	-	714,450	-	100	14,289
	61-80	116	26	1,657,524	371,514	80	80	14,289
	81-100	151	20	2,157,639	285,780	70	80	14,289
	101-120	141	20	2,014,749	285,780	60	80	14,289
				5,829,912	3,329,337			85,734
Working Group Summary				43,780,421	17,313,565			357,131
Administrative Working Group								
I	1-20	-	110	-	33,330	-	100	303
	21-40	-	102	-	30,906	-	100	303
	41-60	360	72	109,080	21,816	100	100	303
	61-80	376	42	113,928	12,726	80	80	303
	81-100	305	34	92,415	10,302	70	80	303
	101-120	225	26	68,175	7,878	60	80	303
	121-140	155	22	47,120	6,688	50	80	304
	141-160	130	20	39,520	6,080	50	80	304
	161-180	110	16	33,440	4,864	50	80	304
	181-200	93	16	28,272	4,864	50	80	304
				531,950	139,454			3,034

Table 33 (continued)

Projections for Growth for Cutting Period F.Y. 2007-2026
Sitgreaves Working Circle

Site Quality Class	Age Class	Growth Per Acre		Growth Per Working Circle		Growth Percent Factor Of Estimated Future Growth		Acres
		Scribner Board Feet	Cubic Feet	Scribner Board Feet	Cubic Feet	Bd.Ft.	Cu.Ft	
II	1-20	-	85	-	343,825	-	100	4,045
	21-40	-	80	-	323,600	-	100	4,045
	41-60	165	57	667,425	230,565	100	100	4,045
	61-80	238	36	962,710	145,620	80	80	4,045
	81-100	238	28	962,710	113,260	70	80	4,045
	101-120	186	21	752,370	84,945	60	80	4,045
	121-140	125	18	505,625	72,810	50	80	4,045
	141-160	103	16	416,532	64,704	50	80	4,044
	161-180	89	14	359,916	56,616	50	80	4,044
	181-200	81	14	327,564	56,616	50	80	4,044
				4,954,852	1,492,561			40,447
III	1-20	-	60	-	36,600	-	100	610
	21-40	-	57	-	34,770	-	100	610
	41-60	-	50	-	30,500	-	100	610
	61-80	116	26	70,760	15,860	80	80	610
	81-100	151	20	92,110	12,200	70	80	610
	101-120	141	20	86,010	12,200	60	80	610
	121-140	105	16	64,050	9,760	50	80	610
	141-160	85	12	51,850	7,320	50	80	610
	161-180	75	12	45,750	7,320	50	80	610
	181-200	68	8	41,412	4,872	50	80	609
				451,942	171,402			6,099
Working Group Summary -				5,938,744	1,803,417			49,580
Working Circle Summary -				49,719,165	19,116,982			406,711

d. Cutting Period F.Y. 2027-2046

Table 34

Projections for Growth for Cutting Period F.Y. 2027-2046
Sitgreaves Working Circle

Site Quality Class	Age Class	Growth Per Acre		Growth Per Working Circle		Growth Percent Factor Of Estimated Future Growth		Acres
		Scribner Board Feet	Cubic Feet	Scribner Board Feet	Cubic Feet	Bd.Ft.	Cu.Ft.	
Technical Working Group								
I	1-20	-	110	-	136,070	-	100	1,237
	21-40	-	102	-	126,174	-	100	1,237
	41-60	360	72	445,320	89,064	100	100	1,237
	61-80	470	52	581,390	64,324	100	100	1,237
	81-100	392	38	484,904	47,006	90	90	1,237
	101-120	300	29	370,800	35,844	80	90	1,236
				1,882,414	498,482			7,421
II	1-20	-	85	-	3,739,660	-	100	43,996
	21-40	-	80	-	3,519,680	-	100	43,996
	41-60	165	57	7,259,340	2,507,772	100	100	43,996
	61-80	297	45	13,066,812	1,979,820	100	100	43,996
	81-100	306	32	13,462,776	1,407,872	90	90	43,996
	101-120	248	23	10,911,008	1,011,908	80	90	43,996
				44,699,936	14,166,712			263,976
III	1-20	-	60	-	857,340	-	100	14,289
	21-40	-	57	-	814,473	-	100	14,289
	41-60	-	50	-	714,450	-	100	14,289
	61-80	145	32	2,071,905	457,248	100	100	14,289
	81-100	194	23	2,772,066	328,647	90	90	14,289
	101-120	188	23	2,686,332	328,647	80	90	14,289
				7,530,303	3,500,805			85,734
Working Group Summary -				54,112,653	18,165,999			357,131
Administrative Working Group								
I	1-20	-	110	-	33,330	-	100	303
	21-40	-	102	-	30,906	-	100	303
	41-60	360	72	109,080	21,816	100	100	303
	61-80	470	52	142,410	15,756	100	100	303
	81-100	392	38	118,776	11,514	90	90	303
	101-120	300	29	90,900	8,787	80	90	303
	121-140	217	24	65,968	7,296	70	90	304
	141-160	182	23	55,328	6,992	70	90	304
	161-180	154	18	46,816	5,472	70	90	304
	181-200	130	18	39,520	5,472	70	90	304
				668,798	147,341			3,034

Table 34 (continued)

Projections for Growth for Cutting Period F.Y. 2027-2046
Sitgreaves Working Circle

Site Quality Class	Age Class	Growth Per Acre		Growth Per Working Circle		Growth Percent Factor Of Estimated Future Growth		Acres
		Scribner Board Feet	Cubic Feet	Scribner Board Feet	Cubic Feet	Bd.Ft.	Cu.Ft.	
II	1-20	-	85	-	343,825	-	100	4,045
	21-40	-	80	-	323,600	-	100	4,045
	41-60	165	57	667,425	230,565	100	100	4,045
	61-80	297	45	1,201,365	182,025	100	100	4,045
	81-100	306	32	1,237,770	129,440	90	90	4,045
	101-120	248	23	1,003,160	93,035	80	90	4,045
	121-140	175	20	707,875	80,900	70	90	4,045
	141-160	144	18	582,336	72,792	70	90	4,044
	161-180	124	15	501,456	60,660	70	90	4,044
	181-200	113	15	456,972	60,660	70	90	4,044
				6,358,359	1,577,502			40,447
III	1-20	-	60	-	36,600	-	100	610
	21-40	-	57	-	34,770	-	100	610
	41-60	-	50	-	30,500	-	100	610
	61-80	145	32	88,450	19,520	100	100	610
	81-100	194	23	118,340	14,030	90	90	610
	101-120	188	23	114,680	14,030	80	90	610
	121-140	147	18	89,670	10,980	70	90	610
	141-160	119	14	72,590	8,540	70	90	610
	161-180	105	14	64,050	8,540	70	90	610
	181-200	95	9	57,855	5,481	70	90	609
				605,635	182,991			6,099
Working Group Summary -				7,632,792	1,907,834			49,580
Working Circle Summary -				61,745,445	20,073,833			406,711

e. Cutting Period F.Y. 2047-2066

Table 35

Projections for Growth for Cutting Period F.Y. 2047-2066
Sitgreaves Working Circle

Site Quality Class	Age Class	Growth Per Acre		Growth Per Working Circle		Growth Percent Factor Of Estimated Future Growth		Acres
		Scribner Board Feet	Cubic Feet	Scribner Board Feet	Cubic Feet	Bd.Ft.	Cu.Ft.	
Technical Working Group								
I	1-20	-	110	-	136,070	-	100	1,237
	21-40	-	102	-	126,174	-	100	1,237
	41-60	360	72	445,320	89,064	100	100	1,237
	61-80	470	52	581,390	64,324	100	100	1,237
	81-100	435	42	538,095	51,954	100	100	1,237
	101-120	338	30	417,768	37,080	90	95	1,236
				1,982,573	504,666			7,421
II	1-20	-	85	-	3,739,660	-	100	43,996
	21-40	-	80	-	3,519,680	-	100	43,996
	41-60	165	57	7,259,340	2,507,772	100	100	43,996
	61-80	297	45	13,066,812	1,979,820	100	100	43,996
	81-100	340	35	14,958,640	1,539,860	100	100	43,996
	101-120	279	25	12,274,884	1,099,900	90	95	43,996
				47,559,676	14,386,692			263,976
III	1-20	-	60	-	857,340	-	100	14,289
	21-40	-	57	-	814,473	-	100	14,289
	41-60	-	50	-	714,450	-	100	14,289
	61-80	145	32	2,071,905	457,248	100	100	14,289
	81-100	215	25	3,072,135	357,225	100	100	14,289
	101-120	212	24	3,029,268	342,936	90	95	14,289
				8,173,308	3,543,672			85,734
Working Group Summary -				57,715,557	18,435,030			357,131
Administrative Working Group								
I	1-20	-	110	-	33,330	-	100	303
	21-40	-	102	-	30,906	-	100	303
	41-60	360	72	109,080	21,816	100	100	303
	61-80	470	52	142,410	15,756	100	100	303
	81-100	435	42	131,805	12,726	100	100	303
	101-120	338	30	102,414	9,090	90	95	303
	121-140	248	26	75,392	7,904	80	95	304
	141-160	208	24	63,232	7,296	80	95	304
	161-180	176	19	53,504	5,776	80	95	304
	181-200	148	19	44,992	5,776	80	95	304
				722,829	150,376			3,034

Table 35 (continued)

Projections for Growth for Cutting Period F.Y. 2047-2066
Sitgreaves Working Circle

Site Quality Class	Age Class	Growth Per Acre		Growth Per Working Circle		Growth Percent Factor Of Estimated Future Growth		Acres
		Scribner Board Feet	Cubic Feet	Scribner Board Feet	Cubic Feet	Bd.Ft.	Cu.Ft.	
II	1-20	-	85	-	343,825	-	100	4,045
	21-40	-	80	-	323,600	-	100	4,045
	41-60	165	57	667,425	230,565	100	100	4,045
	61-80	297	45	1,201,365	182,025	100	100	4,045
	81-100	340	35	1,375,300	141,575	100	100	4,045
	101-120	279	25	1,128,555	101,125	90	95	4,045
	121-140	200	21	809,000	84,945	80	95	4,045
	141-160	164	19	663,216	76,836	80	95	4,044
	161-180	142	16	574,248	64,704	80	95	4,044
	181-200	130	16	525,720	64,704	80	95	4,044
				6,944,829	1,613,904			40,447
III	1-20	-	60	-	36,600	-	100	610
	21-40	-	57	-	34,770	-	100	610
	41-60	-	50	-	30,500	-	100	610
	61-80	145	32	88,450	19,520	100	100	610
	81-100	215	25	131,150	15,250	100	100	610
	101-120	212	24	129,320	14,640	90	95	610
	121-140	168	19	102,480	11,590	80	95	610
	141-160	136	14	82,960	8,540	80	95	610
	161-180	120	14	73,200	8,540	80	95	610
	181-200	108	9	65,772	5,481	80	95	609
				673,332	185,431			6,099
Working Group Summary -				8,340,990	1,949,711			49,580
Working Circle Summary -				66,056,547	20,384,741			406,711

5. Growing Stock Level Projections by Cutting Periods

a. Cutting Period F.Y. 1967-1986

Table 36

Board Feet Growing Stock Level Projection for
Cutting Period F.Y. 1967-1986
Sitgreaves Working Circle

Year	Beginning Inventory M Bd. Ft.	Cut M Bd.Ft.	Mortality M Bd. Ft.	Subtotal M Bd. Ft.	Growth M Bd. Ft.	Total Drain or Gain Per Year M Bd. Ft.
July 1						
1966	1,754,183.636	56,200	14,790	70,990	19,839	- 51,151
1967	1,703,033	56,200	14,041	70,241	19,693	- 50,548
1968	1,652,485	56,200	13,297	69,497	19,547	- 49,950
1969	1,602,535	56,200	12,543	68,743	19,402	- 49,341
1970	1,553,194	56,200	11,794	67,994	19,256	- 48,738
1971	1,504,456	56,200	11,044	67,244	19,110	- 48,134
1972	1,456,322	56,200	10,295	66,495	18,965	- 47,530
1973	1,408,792	56,200	9,546	65,746	18,819	- 46,927
1974	1,361,865	56,200	8,797	64,997	18,673	- 46,324
1975	1,315,541	56,200	8,048	64,248	18,528	- 45,720
1976	1,269,821	56,200	7,299	63,499	18,382	- 45,117
1977	1,224,704	56,200	6,550	62,750	18,236	- 44,514
1978	1,180,190	56,200	5,802	62,002	18,090	- 43,912
1979	1,136,278	56,200	5,052	61,252	17,945	- 43,307
1980	1,092,971	56,200	4,303	60,503	17,709	- 42,794
1981	1,050,177	56,200	3,554	59,754	17,653	- 42,101
1982	1,008,076	56,200	2,805	59,005	17,508	- 41,497
1983	966,579	56,200	2,056	58,256	17,362	- 40,894
1984	925,685	56,200	1,307	57,507	17,216	- 40,291
1985	885,394	56,200	1,331	57,531	17,070	- 40,461
1986	844,933		1,411			

Table 37

Cubic Feet Growing Stock Level Projection for
Cutting Period F.Y. 1967-1986
Sitgreaves Working Circle

Year	Beginning Inventory M Cu. Ft.	Cut M Cu.Ft.	Mortality M Cu. Ft.	Subtotal M Cu. Ft.	Growth M Cu. Ft.	Total Drain or Gain Per Year M Cu. Ft.
July 1						
1966	520,638.736	15,621	3,830	19,451	13,464	- 5,987
1967	514,651	15,621	3,636	19,257	13,365	- 5,892
1968	508,759	15,621	3,441	19,062	13,267	- 5,795
1969	502,964	15,621	3,246	18,867	13,168	- 5,699
1970	497,265	15,621	3,051	18,672	13,069	- 5,603
1971	491,662	15,621	2,857	18,478	13,340	- 5,138
1972	486,524	15,621	2,662	18,283	13,239	- 5,044
1973	481,480	15,621	2,468	18,089	13,137	- 4,952
1974	476,528	15,621	2,273	17,894	13,035	- 4,859
1975	471,669	15,621	2,079	17,700	12,934	- 4,766
1976	466,903	15,621	1,884	17,505	13,188	- 4,317
1977	462,586	15,621	1,690	17,311	13,084	- 4,227
1978	458,359	15,621	1,494	17,115	12,979	- 4,136
1979	454,223	15,621	1,300	16,921	12,875	- 4,046
1980	450,177	15,621	1,105	16,726	12,770	- 3,956
1981	446,221	15,621	911	16,532	13,008	- 3,524
1982	442,697	15,621	716	16,337	12,901	- 3,436
1983	439,261	15,621	522	16,143	12,793	- 3,350
1984	435,911	15,621	327	15,948	12,686	- 3,262
1985	432,649	15,621	333	15,954	12,909	- 3,045
1986	429,604		350			

		Cut Data
Sawtimber	-	10.037 MM Cu. Ft.
Increased by 127.72% for topwood	-	127.72
		12.819 MM Cu. Ft.
Pulpwood	-	2.802 MM Cu. Ft.
		15.621

b. Cutting Period F.Y. 1987-2006

Table 38

Board Feet Growing Stock Level Projection for
Cutting Period F.Y. 1987-2006
Sitgreaves Working Circle

Year	Beginning Inventory M Bd. Ft.	Cut M Bd.Ft.	Mortality M Bd. Ft.	Subtotal M Bd. Ft.	Growth M Bd. Ft.	Total Drain or Gain Per Year M Bd. Ft.
July 1						
1986	844,933	21,000	1,411	22,411	20,284	- 2,127
1987	842,806	21,000	1,387	22,387	22,698	311
1988	843,117	21,000	1,306	22,306	26,012	3,706
1989	846,823	21,000	1,225	22,225	29,886	7,661
1990	854,484	21,000	1,143	22,143	33,050	10,907
1991	865,391	21,000	1,062	22,062	34,200	12,138
1992	877,529	21,000	981	21,981	35,650	13,669
1993	891,198	21,000	899	21,899	36,700	14,801
1994	905,999	21,000	818	21,818	37,950	16,132
1995	922,131	21,000	737	21,737	39,100	17,363
1996	939,494	22,000	655	22,655	40,189	17,534
1997	957,028	22,000	574	22,574	41,250	18,676
1998	975,704	22,000	493	22,493	42,014	19,521
1999	995,225	22,000	411	22,411	42,450	20,039
2000	1,015,264	22,000	330	22,330	42,600	20,270
2001	1,035,534	22,000	249	22,249	42,750	20,501
2002	1,056,035	22,000	167	22,167	42,900	20,733
2003	1,076,768	22,000	86	22,086	43,050	20,964
2004	1,097,732	22,000	5	22,005	43,200	21,195
2005	1,118,927	22,000	0	22,000	43,341	21,341
2006	1,140,268		-			

Table 39

Cubic Feet Growing Stock Level Projection for
Cutting Period F.Y. 1987-2006
Sitgreaves Working Circle

Year	Beginning Inventory M Cu. Ft.	Cut M Cu.Ft.	Mortality M Cu. Ft.	Subtotal M Cu. Ft.	Growth M Cu. Ft.	Total Drain or Gain Per Year M Cu. Ft.
July 1						
1986	429,604	13,884	350	14,234	15,111	877
1987	430,481	13,884	347	14,231	16,732	2,501
1988	432,982	13,884	327	14,211	17,561	3,350
1989	436,332	13,884	306	14,190	17,734	3,544
1990	439,876	13,884	286	14,170	17,753	3,583
1991	443,459	13,884	266	14,150	17,828	3,678
1992	447,137	13,884	245	14,129	17,908	3,779
1993	450,916	13,884	225	14,109	17,978	3,869
1994	454,785	13,884	204	14,088	18,046	3,958
1995	458,743	13,884	184	14,068	18,102	4,034
1996	462,777	13,884	164	14,048	18,152	4,104
1997	466,881	13,884	143	14,027	18,198	4,171
1998	471,052	13,884	123	14,007	18,243	4,236
1999	475,288	13,884	103	13,987	18,289	4,302
2000	479,590	13,884	82	13,966	18,328	4,362
2001	483,952	13,884	62	13,946	18,366	4,420
2002	488,372	13,884	42	13,926	18,404	4,478
2003	492,850	13,884	21	13,905	18,438	4,533
2004	497,383	13,884	1	13,885	18,473	4,588
2005	501,971	13,884	0	13,884	18,512	4,628
2006	506,599		-			

c. Cutting Period F.Y. 2007-2026

Table 40

Board Feet Growing Stock Level Projection for
Cutting Period F.Y. 2007-2026
Sitgreaves Working Circle

Year	Beginning Inventory M Bd. Ft.	Cut M Bd. Ft.	Growth M Bd. Ft.	Total Drain or Gain Per Year M Bd. Ft.
July 1				
2006	1,140,268	22,500	43,661	21,161
2007	1,161,429	22,500	44,281	21,781
2008	1,183,210	22,500	44,901	22,401
2009	1,205,611	22,500	45,521	23,021
2010	1,228,632	22,500	46,141	23,641
2011	1,252,273	22,500	46,761	24,261
2012	1,276,534	22,500	47,381	24,881
2013	1,301,415	22,500	48,001	25,501
2014	1,326,916	22,500	48,693	26,193
2015	1,353,109	22,500	49,541	27,041
2016	1,380,150	22,650	50,161	27,511
2017	1,407,661	22,650	50,781	28,131
2018	1,435,792	22,650	51,401	28,751
2019	1,464,543	22,650	52,021	29,371
2020	1,493,914	22,650	52,641	29,991
2021	1,523,905	22,650	53,261	30,611
2022	1,554,516	22,650	53,881	31,231
2023	1,585,747	22,650	54,501	31,851
2024	1,617,598	22,650	55,121	32,471
2025	1,650,069	22,650	55,732	33,082
2026	1,683,151			

Table 41

Cubic Feet Growing Stock Level Projection for
Cutting Period F.Y. 2007-2026
Sitgreaves Working Circle

Year	Beginning Inventory M Cu. Ft.	Cut M Cu. Ft.	Growth M Cu. Ft.	Total Drain or Gain Per Year M Cu. Ft.
July 1				
2006	506,599	14,000	18,606	4,606
2007	511,205	14,000	18,660	4,660
2008	515,865	14,000	18,714	4,714
2009	520,579	14,000	18,768	4,768
2010	525,347	14,000	18,842	4,842
2011	530,189	14,000	18,876	4,876
2012	535,065	14,000	18,930	4,930
2013	539,995	14,000	18,984	4,984
2014	544,979	14,000	19,038	5,038
2015	550,017	14,000	19,092	5,092
2016	555,109	14,000	19,146	5,146
2017	560,255	14,000	19,200	5,200
2018	565,455	14,000	19,254	5,254
2019	570,709	14,000	19,308	5,308
2020	576,017	14,000	19,362	5,362
2021	581,379	14,000	19,416	5,416
2022	586,795	14,000	19,470	5,470
2023	592,265	14,000	19,514	5,514
2024	597,779	14,000	19,565	5,565
2025	603,344	14,000	19,595	5,595
2026	608,939			

d. Cutting Period F.Y. 2027-2046

Table 42

Board Feet Growing Stock Level Project for
Cutting Period F.Y. 2027-2046
Sitgreaves Working Circle

Year	Beginning Inventory M Bd. Ft.	Cut M Bd. Ft.	Growth M Bd. Ft.	Total Drain or Gain Per Year M Bd. Ft.
July 1				
2026	1,683,151	24,000	58,141	34,141
2027	1,717,292	24,000	59,050	35,050
2028	1,752,342	24,000	59,459	35,459
2029	1,787,801	24,000	59,968	35,968
2030	1,823,769	24,000	60,277	36,277
2031	1,860,046	24,000	60,686	36,686
2032	1,896,732	24,000	61,095	37,095
2033	1,933,827	24,000	61,294	37,294
2034	1,971,121	24,000	61,613	37,613
2035	2,008,734	24,000	62,222	38,222
2036	2,046,956	24,000	62,431	38,431
2037	2,085,387	24,000	62,640	38,640
2038	2,124,027	24,000	62,849	38,849
2039	2,162,876	24,000	62,958	38,958
2040	2,201,834	24,000	63,067	39,067
2041	2,240,901	24,000	63,176	39,176
2042	2,280,077	24,000	63,185	39,185
2043	2,319,262	24,000	63,294	39,294
2044	2,358,556	24,000	63,603	39,603
2045	2,398,159	24,000	63,901	39,901
2046	2,438,060			

Table 43

Cubic Feet Growing Stock Level Projection for
Cutting Period F.Y. 2027-2046
Sitgreaves Working Circle

Year	Beginning Inventory M Cu. Ft.	Cut M Cu. Ft.	Growth M Cu. Ft.	Total Drain or Gain Per Year M Cu. Ft.
July 1				
2026	608,939	15,000	19,852	4,852
2027	613,791	15,000	19,859	4,859
2028	618,650	15,000	19,891	4,891
2029	623,541	15,000	19,923	4,923
2030	628,464	15,000	19,955	4,955
2031	633,419	15,000	19,987	4,987
2032	638,406	15,000	20,019	5,019
2033	643,425	15,000	20,051	5,051
2034	648,476	15,000	20,083	5,083
2035	653,559	15,000	20,115	5,115
2036	658,674	15,000	20,122	5,122
2037	663,796	15,000	20,129	5,129
2038	668,925	15,000	20,136	5,136
2039	674,061	15,000	20,156	5,156
2040	679,217	15,000	20,175	5,175
2041	684,392	15,000	20,182	5,182
2042	689,574	15,000	20,189	5,189
2043	694,763	15,000	20,196	5,196
2044	699,959	15,000	20,228	5,228
2045	705,187	15,000	20,229	5,229
2046	710,416			

e. Cutting Period F.Y. 2047-2066

Table 44

Board Feet Growing Stock Level Projection for
Cutting Period F.Y. 2047-2066
Sitgreaves Working Circle

Year	Beginning Inventory M Bd. Ft.	Cut M Bd. Ft.	Growth M Bd. Ft.	Total Drain or Gain Per Year M Bd. Ft.
July 1				
2046	2,438,060	26,000	64,043	38,043
2047	2,476,103	26,000	64,185	38,185
2048	2,514,288	26,000	64,227	38,227
2049	2,552,515	26,000	64,369	38,369
2050	2,590,884	26,000	64,611	38,611
2051	2,629,495	26,000	64,853	38,853
2052	2,668,348	26,000	65,095	39,095
2053	2,707,443	26,000	65,337	39,337
2054	2,746,780	26,000	65,579	39,579
2055	2,786,359	26,000	65,821	39,821
2056	2,826,180	26,000	66,063	40,063
2057	2,866,243	26,000	66,305	40,305
2058	2,906,548	26,000	66,547	40,547
2059	2,947,095	26,000	66,789	40,789
2060	2,987,884	26,000	67,031	41,031
2061	3,028,915	26,000	67,273	41,273
2062	3,070,188	26,000	67,715	41,715
2063	3,111,903	26,000	68,064	42,064
2064	3,153,967	26,000	68,499	42,499
2065	3,196,466	26,000	68,725	42,725
2066	3,239,191	68,725	68,725	-
2067	3,239,191			

Table 45

Cubic Feet Growing Stock Level Projection for
Cutting Period F.Y. 2047-2066
Sitgreaves Working Circle

Year	Beginning Inventory M Cu. Ft.	Cut M Cu. Ft.	Growth M Cu. Ft.	Total Drain or Gain Per Year M Cu. Ft.
July 1				
2046	710,416	17,000	20,291	3,291
2047	713,707	17,000	20,303	3,303
2048	717,010	17,000	20,315	3,315
2049	720,325	17,000	20,327	3,327
2050	723,652	17,000	20,339	3,339
2051	726,991	17,000	20,351	3,351
2052	730,342	17,000	20,363	3,363
2053	733,705	17,000	20,375	3,375
2054	737,080	17,000	20,387	3,387
2055	740,467	17,000	20,389	3,389
2056	743,856	17,000	20,401	3,401
2057	747,257	17,000	20,403	3,403
2058	750,660	17,000	20,405	3,405
2059	754,065	17,000	20,407	3,407
2060	757,472	17,000	20,412	3,412
2061	760,884	17,000	20,421	3,421
2062	764,305	17,000	20,433	3,433
2063	767,738	17,000	20,445	3,445
2064	771,183	17,000	20,457	3,457
2065	774,640	17,105	20,471	3,366
2066	778,006	20,471	20,471	-
2067	778,006			

Table 45A

Mortality, Growth, Cut, and Growing Stock Level Projections
for Current Cut Equated to Measured Growth (6) '20.1 MMBM'
Sitgreaves Working Circle

Item	Per Acre		Per Year		20-Year Totals	
	Scribner Bd. Ft.	Cubic Feet	M Scribner Bd.Ft.	M Cubic Feet	M Scribner Bd.Ft.	M Cubic Feet
Beginning Inventory-July 1, 1966	-	-	-	-	1,754,184	520,639
Cutting Period-F.Y. 1967-F.Y. 1986						
Growth	-	-	-	-	+ 369,003	+ 261,211
Cut	-	-	20,222	7,414	- 404,440	- 148,280
Mortality (on an average 357,856 acres)	40.28	10.43	14,414	3,732	- 288,280	- 74,640
Ending Inventory					1,430,467	558,930
Cutting Period-F.Y. 1987-F.Y. 2006						
Growth	-	-	36,963.704	17,907.794	+ 739,274	+ 358,156
Cut	-	-	21,118	13,407	- 422,360	- 268,140
Mortality (on an average 301,340 acres)	30.21	7.82	9,103	2,356	- 182,073	- 47,112
Ending Inventory					1,565,308	601,834
Cutting Period-F.Y. 2007-F.Y. 2026						
Growth	-	-	49,719.165	19,116.982	+ 994,383	+ 382,340
Cut	-	-	26,000	15,000	- 520,000	- 300,000
Mortality (on an average 244,824 acres)	20.14	5.21	4,931	1,276	- 98,620	- 25,520
Ending Inventory					1,941,071	658,654
Cutting Period-F.Y. 2027-F.Y. 2046						
Growth	-	-	61,745.445	20,073.833	+ 1,234,909	+ 401,477
Cut	-	-	28,000	16,000	- 560,000	- 320,000
Mortality (on an average 188,308 acres)	10.07	2.61	1,896	491	- 37,920	- 9,820
Ending Inventory					2,578,060	730,311
Cutting Period-F.Y. 2047-F.Y. 2066						
Growth	-	-	66,056.547	20,384.741	+ 1,321,131	+ 407,695
Cut	-	-	33,000	18,000	- 660,000	- 360,000
Ending Inventory					3,239,191	778,006
Cutting Period-F.Y. 2067-F.Y. 2086						
Growth - Sustained	-	-	68,724.823	20,470.591	+ 1,374,496	+ 409,412
Cut - Sustained	-	-	68,724.823	20,470.591	- 1,374,496	- 409,412
Growing Stock Inventory-Sustained					3,239,191	778,006

Cu. Ft. Cut/Year		
Removal	- 2,259	M
11-16"	- 1,352	M
	3,611	M
Topwood	- 127.72	
	4,612	M
Pulpwood	- 2,802	M
Total	- 7,414	M

SITGREAVES WORKING CIRCLE PROJECTIONS

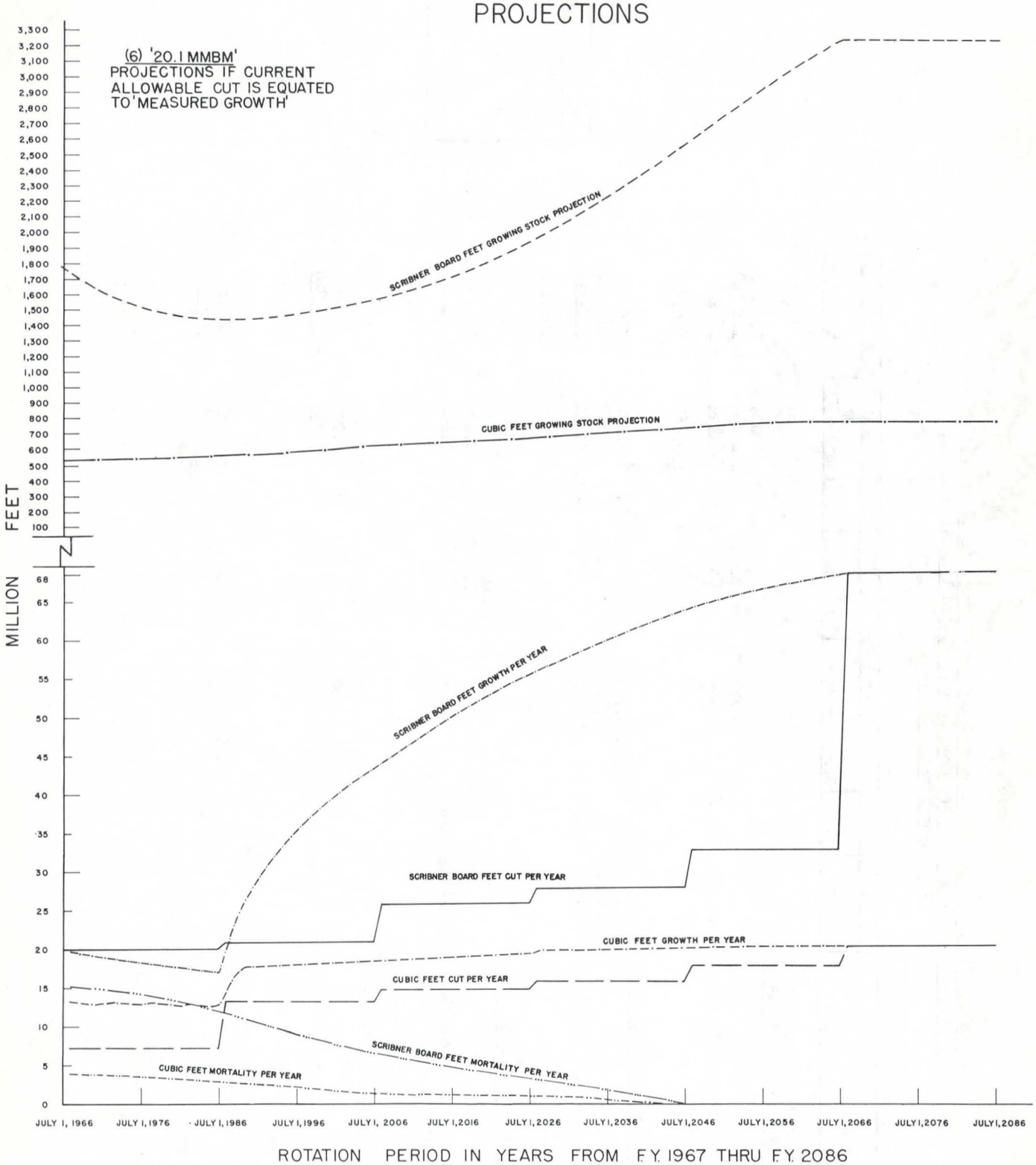

(6) '20.1 MMBM'
PROJECTIONS IF CURRENT ALLOWABLE CUT IS EQUATED TO 'MEASURED GROWTH'
SCRIBNER BOARD FEET GROWING STOCK PROJECTION
CUBIC FEET GROWING STOCK PROJECTION
FEET
MILLION
SCRIBNER BOARD FEET GROWTH PER YEAR
SCRIBNER BOARD FEET CUT PER YEAR
CUBIC FEET GROWTH PER YEAR
CUBIC FEET CUT PER YEAR
SCRIBNER BOARD FEET MORTALITY PER YEAR
CUBIC FEET MORTALITY PER YEAR
JULY 1, 1966
JULY 1, 1976
JULY 1, 1986
JULY 1, 1996
JULY 1, 2006
JULY 1, 2016
JULY 1, 2026
JULY 1, 2036
JULY 1, 2046
JULY 1, 2056
JULY 1, 2066
JULY 1, 2076
JULY 1, 2086
ROTATION PERIOD IN YEARS FROM F.Y. 1967 THRU F.Y. 2086

Figure 3

Table 45B

Mortality, Growth, Cut, and Growing Stock Level Projections
for Current Cut Equated to Forecasted Growth (7) '26.4 MMBM'
Sitgreaves Working Circle

Item	Per Acre		Per Year		20-Year Totals	
	Scribner Bd. Ft.	Cubic Feet	M Scribner Bd.Ft.	M Cubic Feet	M Scribner Bd.Ft.	M Cubic Feet
Beginning Inventory-July 1, 1966	-	-	-	-	1,754,184	520,639
Cutting Period-F.Y. 1967-F.Y. 1986						
Growth	-	-	-	-	+ 369,003	+ 261,211
Cut	-	-	26,400	8,823	- 528,000	- 176,460
Mortality (on an average 357,856 acres)	38.24	9.90	13,684	3,543	- 273,680	- 70,860
Ending Inventory					1,321,507	534,530
Cutting Period-F.Y. 1987-F.Y. 2006						
Growth	-	-	36,963.704	17,907.794	+ 739,274	+ 358,156
Cut	-	-	25,000	12,392	- 500,000	- 247,840
Mortality (on an average 301,340 acres)	28.68	7.43	8,642	2,239	- 172,853	- 44,772
Ending Inventory					1,387,928	600,074
Cutting Period-F.Y. 2007-F.Y. 2026						
Growth	-	-	49,719.165	19,116.982	+ 994,383	+ 382,340
Cut	-	-	25,477	15,000	- 509,540	- 300,000
Mortality (on an average 244,824 acres)	19.12	4.95	4,681	1,212	- 93,620	- 24,240
Ending Inventory					1,779,151	658,174
Cutting Period-F.Y. 2027-F.Y. 2046						
Growth	-	-	61,745.445	20,073.833	+ 1,234,909	+ 401,477
Cut	-	-	26,000	16,000	- 520,000	- 320,000
Mortality (on an average 188,308 acres)	9.56	2.48	1,800	467	- 36,000	- 9,340
Ending Inventory					2,458,060	730,311
Cutting Period-F.Y. 2047-F.Y. 2066						
Growth	-	-	66,056.547	20,384.741	+ 1,321,131	+ 407,695
Cut	-	-	27,000	18,000	- 540,000	- 360,000
Ending Inventory					3,239,191	778,006
Cutting Period-F.Y. 2067-F.Y. 2086						
Growth - Sustained	-	-	68,724.823	20,470.591	+ 1,374,496	+ 409,412
Cut - Sustained	-	-	68,724.823	20,470.591	- 1,374,496	- 409,412
Growing Stock Inventory-Sustained					3,239,191	778,006

Cu. Ft. Cut/Year		
Removal	-	2,259 M
11-16"	-	1,352 M
Prep.	-	1,103 M
		4,714 M
Topwood	-	127.72
		6,021 M
Pulpwood	-	2,802 M
Total		8,823 M

4.82	18.53
10.99	10.99
0.529718	2.036447
10.43	40.28
-0.53	-2.04
9.90	38.24

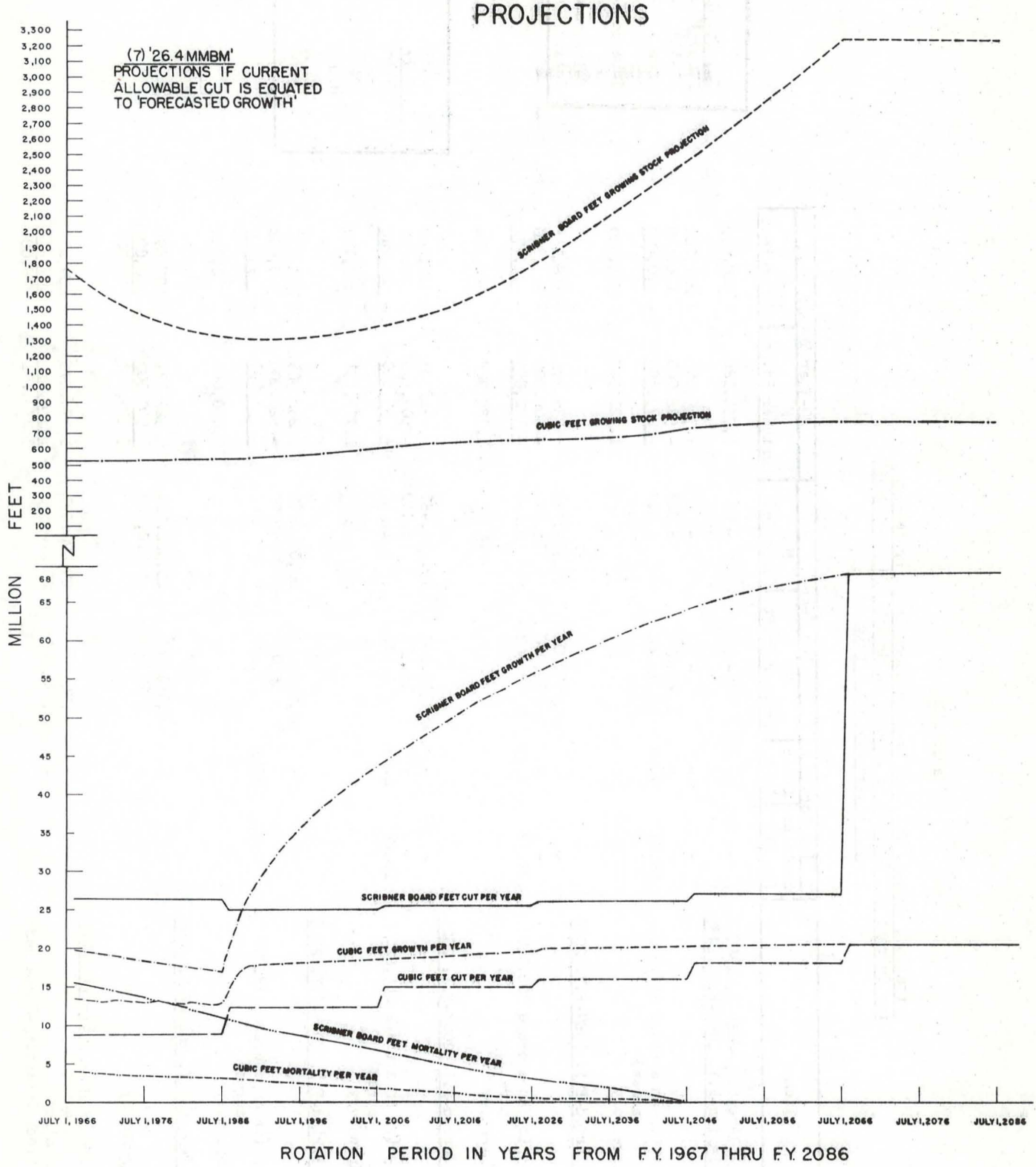

SITGREAVES WORKING CIRCLE
PROJECTIONS
(7) '26.4 MMBM'
PROJECTIONS IF CURRENT
ALLOWABLE CUT IS EQUATED
TO 'FORECASTED GROWTH'
SCRIBNER BOARD FEET GROWING STOCK PROJECTION
CUBIC FEET GROWING STOCK PROJECTION
MILLION FEET
SCRIBNER BOARD FEET GROWTH PER YEAR
SCRIBNER BOARD FEET CUT PER YEAR
CUBIC FEET GROWTH PER YEAR
CUBIC FEET CUT PER YEAR
SCRIBNER BOARD FEET MORTALITY PER YEAR
CUBIC FEET MORTALITY PER YEAR
JULY 1, 1966
JULY 1, 1976
JULY 1, 1986
JULY 1, 1996
JULY 1, 2006
JULY 1, 2016
JULY 1, 2026
JULY 1, 2036
JULY 1, 2046
JULY 1, 2056
JULY 1, 2066
JULY 1, 2076
JULY 1, 2086
ROTATION PERIOD IN YEARS FROM F.Y. 1967 THRU F.Y. 2086

Figure 4

Table 45C

Mortality, Growth, Cut, and Growing Stock Level Projections
for Current Cut Based on the Von Mantel Formula (1) '29.2 MMBM'
Sitgreaves Working Circle

Item	Per Acre		Per Year		20-Year Totals	
	Scribner Bd. Ft.	Cubic Feet	M Scribner Bd.Ft.	M Cubic Feet	M Scribner Bd.Ft.	M Cubic Feet
Beginning Inventory-July 1, 1966	-	-	-	-	1,754,184	520,639
Cutting Period-F.Y. 1967-F.Y. 1986						
Growth	-	-	-	-	+ 369,003	+ 261,211
Cut	-	-	29,200	9,461	- 584,000	- 189,220
Mortality (on an average 357,856 acres)	35.66	9.23	12,761	3,303	- 255,220	- 66,060
Ending Inventory					1,283,967	526,570
Cutting Period-F.Y. 1987-F.Y. 2006						
Growth	-	-	36,963.704	17,907.794	+ 739,274	+ 358,156
Cut	-	-	24,620	12,261	- 492,400	- 245,220
Mortality (on an average 301,340 acres)	26.74	6.92	8,058	2,085	- 161,173	- 41,692
Ending Inventory					1,369,668	597,814
Cutting Period-F.Y. 2007-F.Y. 2026						
Growth	-	-	49,719.165	19,116.982	+ 994,383	+ 382,340
Cut	-	-	25,000	15,000	- 500,000	- 300,000
Mortality (on an average 244,824 acres)	17.83	4.62	4,365	1,131	- 87,300	- 22,620
Ending Inventory					1,776,751	657,534
Cutting Period-F.Y. 2027-F.Y. 2046						
Growth	-	-	61,745.445	20,073.833	+ 1,234,909	+ 401,477
Cut	-	-	26,000	16,000	- 520,000	- 320,000
Mortality (on an average 188,308 acres)	8.92	2.31	1,680	435	- 33,600	- 8,700
Ending Inventory					2,458,060	730,311
Cutting Period-F.Y. 2047-F.Y. 2066						
Growth	-	-	66,056.547	20,384.741	+ 1,321,131	+ 407,695
Cut	-	-	27,000	18,000	- 540,000	- 360,000
Ending Inventory					3,239,191	778,006
Cutting Period-F.Y. 2067-F.Y. 2086						
Growth - Sustained	-	-	68,724.823	20,470.591	+ 1,374,496	+ 409,412
Cut - Sustained	-	-	68,724.823	20,470.591	- 1,374,496	- 409,412
Growing Stock Inventory-Sustained					3,239,191	778,006

Cu. Ft. Cut/Year		
Removal	-	2,259 M
11-16"	-	1,352 M
Prep.	-	1,603 M
		5,214 M
Topwood	-	127.72
		6,659 M
Pulpwood	-	2,802 M
Total	-	9,461 M

4.82	18.53
24.95	24.95
1.202590	4.623235
10.43	40.28
-1.20	-4.62
9.23	35.66

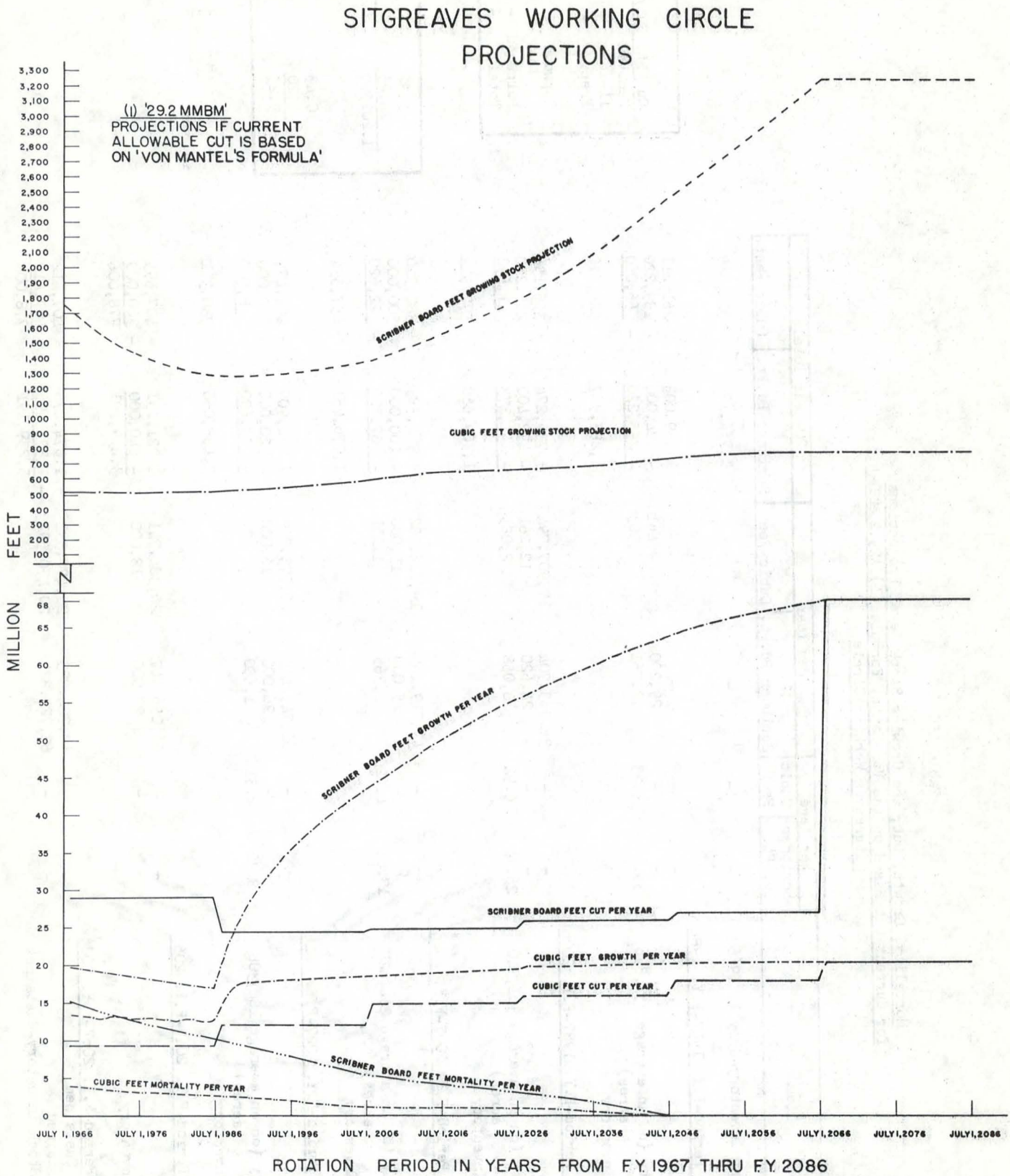

SITGREAVES WORKING CIRCLE
PROJECTIONS
(I) '29.2 MMBM'
PROJECTIONS IF CURRENT
ALLOWABLE CUT IS BASED
ON 'VON MANTEL'S FORMULA'
SCRIBNER BOARD FEET GROWING STOCK PROJECTION
CUBIC FEET GROWING STOCK PROJECTION
MILLION FEET
SCRIBNER BOARD FEET GROWTH PER YEAR
SCRIBNER BOARD FEET CUT PER YEAR
CUBIC FEET GROWTH PER YEAR
CUBIC FEET CUT PER YEAR
SCRIBNER BOARD FEET MORTALITY PER YEAR
CUBIC FEET MORTALITY PER YEAR
JULY 1, 1966
JULY 1, 1976
JULY 1, 1986
JULY 1, 1996
JULY 1, 2006
JULY 1, 2016
JULY 1, 2026
JULY 1, 2036
JULY 1, 2046
JULY 1, 2056
JULY 1, 2066
JULY 1, 2076
JULY 1, 2086
ROTATION PERIOD IN YEARS FROM F.Y. 1967 THRU F.Y. 2086

Figure 5

Table 45D

Mortality, Growth, Cut, and Growing Stock Level Projections
for Current Cut Based on the Rotation Age and Older Component (2) '33.9 MMBM'
Sitgreaves Working Circle

Item	Per Acre		Per Year		20-Year Totals	
	Scribner Bd. Ft.	Cubic Feet	M Scribner Bd.Ft.	M Cubic Feet	M Scribner Bd.Ft.	M Cubic Feet
Beginning Inventory-July 1, 1966	-	-	-	-	1,754,184	520,639
Cutting Period-F.Y. 1967-F.Y. 1986						
Growth	-	-	-	-	+ 369,003	+ 261,211
Cut	-	-	33,900	10,533	- 678,000	- 210,660
Mortality (on an average 357,856 acres)	33.23	8.60	11,892	3,078	- 237,840	- 61,560
Ending Inventory					1,207,347	509,630
Cutting Period-F.Y. 1987-F.Y. 2006						
Growth	-	-	36,963.704	17,907.794	+ 739,274	+ 358,156
Cut	-	-	21,749	11,659	- 434,980	- 233,180
Mortality (on an average 301,340 acres)	24.92	6.45	7,509	1,944	- 150,193	- 38,872
Ending Inventory					1,361,448	595,734
Cutting Period-F.Y. 2007-F.Y. 2026						
Growth	-	-	49,719.165	19,116.982	+ 994,383	+ 382,340
Cut	-	-	25,000	15,000	- 500,000	- 300,000
Mortality (on an average 244,824 acres)	16.62	4.30	4,069	1,053	- 81,380	- 21,060
Ending Inventory					1,774,451	657,014
Cutting Period-F.Y. 2027-F.Y. 2046						
Growth	-	-	61,745.445	20,073.833	+ 1,234,909	+ 401,477
Cut	-	-	26,000	16,000	- 520,000	- 320,000
Mortality (on an average 188,308 acres)	8.31	2.15	1,565	409	- 31,300	- 8,180
Ending Inventory					2,458,060	730,311
Cutting Period-F.Y. 2047-F.Y. 2066						
Growth	-	-	66,056.547	20,384.741	+ 1,321,131	+ 407,695
Cut	-	-	27,000	18,000	- 540,000	- 360,000
Ending Inventory					3,239,191	778,006
Cutting Period-F.Y. 2067-F.Y. 2086						
Growth - Sustained	-	-	68,724.823	20,470.591	+ 1,374,496	+ 409,412
Cut - Sustained	-	-	68,724.823	20,470.591	- 1,374,496	- 409,412
Growing Stock Inventory-Sustained					3,239,191	778,006

Cu. Ft. Cut/Year		
Removal	-	2,259 M
11-16"	-	1,352 M
Prep.	-	2,442 M
		6,053 M
Topwood	-	127.72
		7,731 M
Pulpwood	-	2,802 M
Total	-	10,533 M

4.82	18.53
38.02	38.02
1.832564	7.045106
10.43	40.28
-1.83	-7.05
8.60	33.23

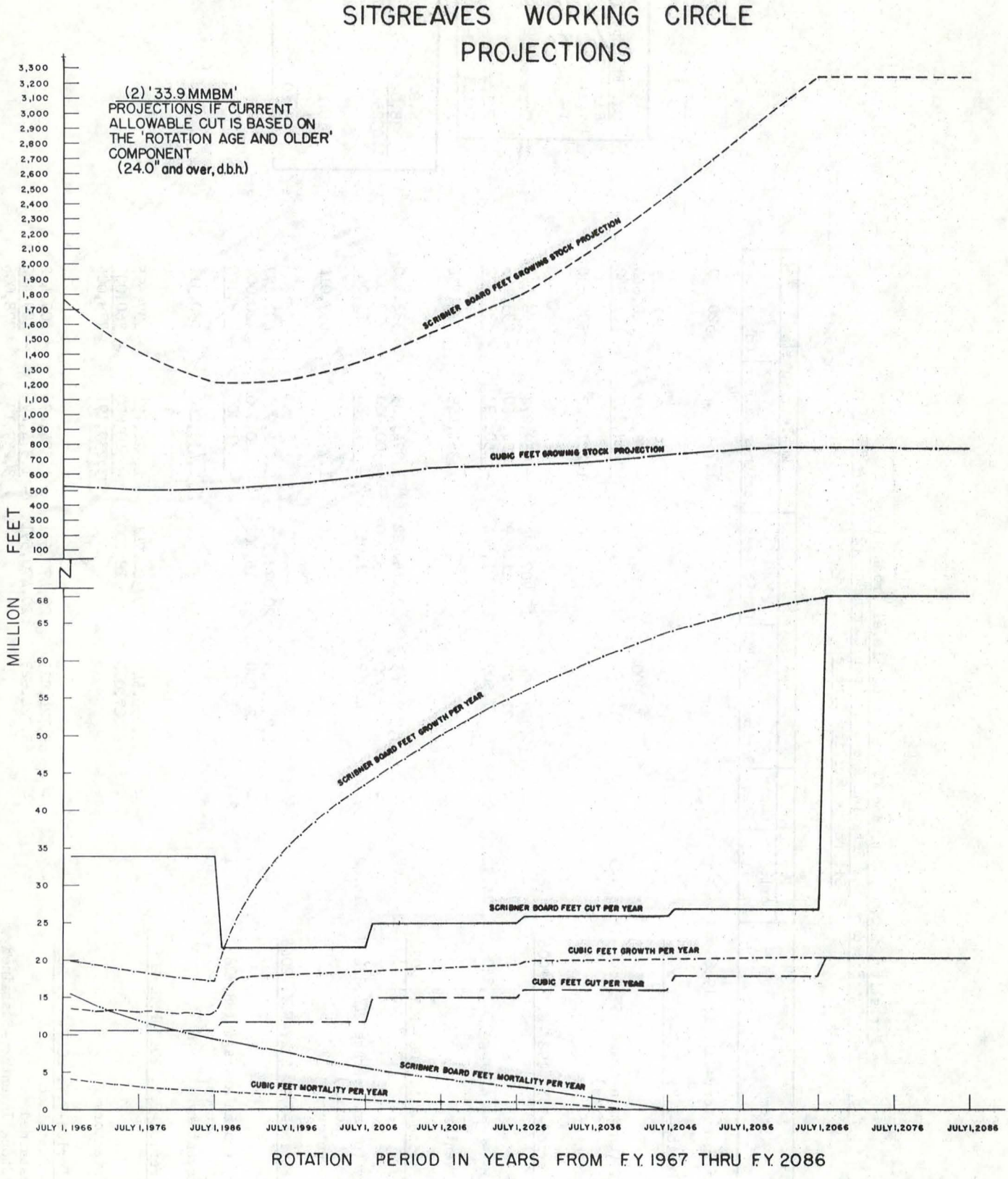

SITGREAVES WORKING CIRCLE
PROJECTIONS
(2) '33.9 MMBM'
PROJECTIONS IF CURRENT
ALLOWABLE CUT IS BASED ON
THE 'ROTATION AGE AND OLDER'
COMPONENT
(24.0" and over, d.b.h.)
SCRIBNER BOARD FEET GROWING STOCK PROJECTION
CUBIC FEET GROWING STOCK PROJECTION
FEET
MILLION
SCRIBNER BOARD FEET GROWTH PER YEAR
SCRIBNER BOARD FEET CUT PER YEAR
CUBIC FEET GROWTH PER YEAR
CUBIC FEET CUT PER YEAR
SCRIBNER BOARD FEET MORTALITY PER YEAR
CUBIC FEET MORTALITY PER YEAR
JULY 1, 1966
JULY 1, 1976
JULY 1, 1986
JULY 1, 1996
JULY 1, 2006
JULY 1, 2016
JULY 1, 2026
JULY 1, 2036
JULY 1, 2046
JULY 1, 2056
JULY 1, 2066
JULY 1, 2076
JULY 1, 2086
ROTATION PERIOD IN YEARS FROM F.Y. 1967 THRU F.Y. 2086

Figure 6

Table 45E

Mortality, Growth, Cut, and Growing Stock Level Projections
for Current Cut Based on the All Trees 20" and Over, d.b.h. Component (3) '51.9 MMBM'
Sitgreaves Working Circle

Item	Per Acre		Per Year		20-Year Totals	
	Scribner Bd. Ft.	Cubic Feet	M Scribner Bd.Ft.	M Cubic Feet	M Scribner Bd.Ft.	M Cubic Feet
Beginning Inventory-July 1, 1966	-	-	-	-	1,754,184	520,639
Cutting Period-F.Y. 1967-F.Y. 1986						
Growth	-	-	-	-	+ 369,003	+ 261,211
Cut	-	-	51,900	14,639	- 1,038,000	- 292,780
Mortality (on an average 357,856 acres)	23.96	6.19	8,574	2,215	- 171,480	- 44,300
Ending Inventory					913,707	444,770
Cutting Period-F.Y. 1987-F.Y. 2006						
Growth	-	-	36,963.704	17,907.794	+ 739,274	+ 358,156
Cut	-	-	21,509	12,742	- 430,180	- 254,840
Mortality (on an average 301,340 acres)	15.81	4.09	4,764	1,232	- 95,293	- 31,612
Ending Inventory					1,127,508	516,474
Cutting Period-F.Y. 2007-F.Y. 2026						
Growth	-	-	49,719.165	19,116.982	+ 994,383	+ 382,340
Cut	-	-	22,000	13,000	- 440,000	- 260,000
Mortality (on an average 244,824 acres)	7.91	2.04	1,937	499	- 38,740	- 9,980
Ending Inventory					1,643,151	628,834
Cutting Period-F.Y. 2027-F.Y. 2046						
Growth	-	-	61,745.445	20,073.833	+ 1,234,909	+ 401,477
Cut	-	-	22,000	15,000	- 440,000	- 300,000
Ending Inventory					2,438,060	730,311
Cutting Period-F.Y. 2047-F.Y. 2066						
Growth	-	-	66,056.547	20,384.741	+ 1,321,131	+ 407,695
Cut			26,000	18,000	- 520,000	- 360,000
Ending Inventory					3,239,191	778,006
Cutting Period-F.Y. 2067-F.Y. 2086						
Growth - Sustained	-	-	68,724.823	20,470.591	+ 1,374,496	+ 409,412
Cut - Sustained	-	-	68,724.823	20,470.591	- 1,374,496	- 409,412
Growing Stock Inventory-Sustained					3,239,191	778,006

Cu. Ft. Cut/Year		
Removal	-	2,259 M
11-16"	-	1,352 M
Prep.	-	5,657 M
		9,268 M
Topwood	-	127.72
		11,837 M
Pulpwood	-	2,802 M
Total	-	14,639 M

4.82	18.53
88.05	88.05
4.244010	16.315665
10.43	40.28
-4.24	-16.32
6.19	23.96

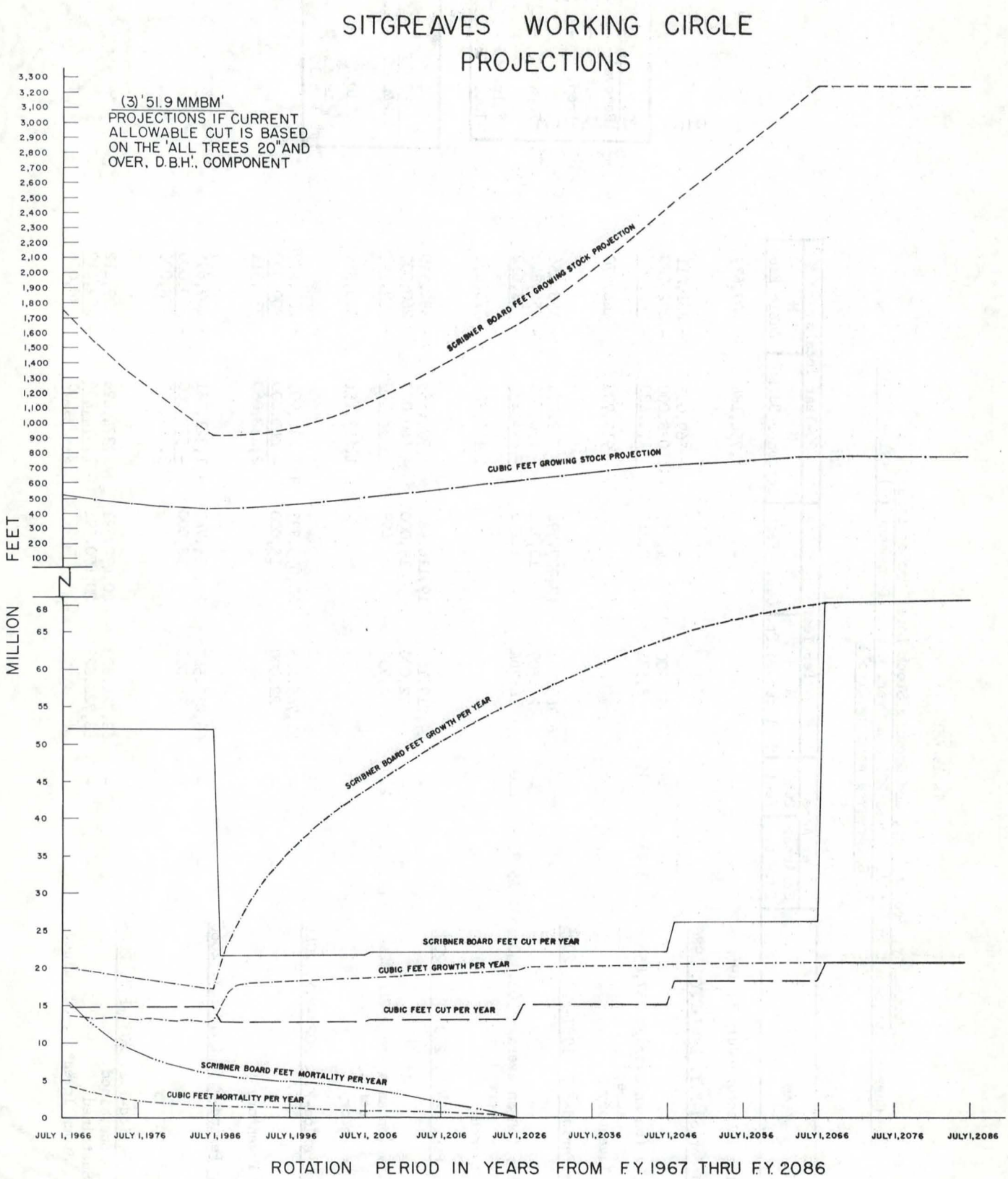

SITGREAVES WORKING CIRCLE
PROJECTIONS
(3) '51.9 MMBM'
PROJECTIONS IF CURRENT
ALLOWABLE CUT IS BASED
ON THE 'ALL TREES 20" AND
OVER, D.B.H.', COMPONENT
SCRIBNER BOARD FEET GROWING STOCK PROJECTION
CUBIC FEET GROWING STOCK PROJECTION
FEET
MILLION
SCRIBNER BOARD FEET GROWTH PER YEAR
SCRIBNER BOARD FEET CUT PER YEAR
CUBIC FEET GROWTH PER YEAR
CUBIC FEET CUT PER YEAR
SCRIBNER BOARD FEET MORTALITY PER YEAR
CUBIC FEET MORTALITY PER YEAR
JULY 1, 1966
JULY 1, 1976
JULY 1, 1986
JULY 1, 1996
JULY 1, 2006
JULY 1, 2016
JULY 1, 2026
JULY 1, 2036
JULY 1, 2046
JULY 1, 2056
JULY 1, 2066
JULY 1, 2076
JULY 1, 2086
ROTATION PERIOD IN YEARS FROM F.Y. 1967 THRU F.Y. 2086

Figure 7

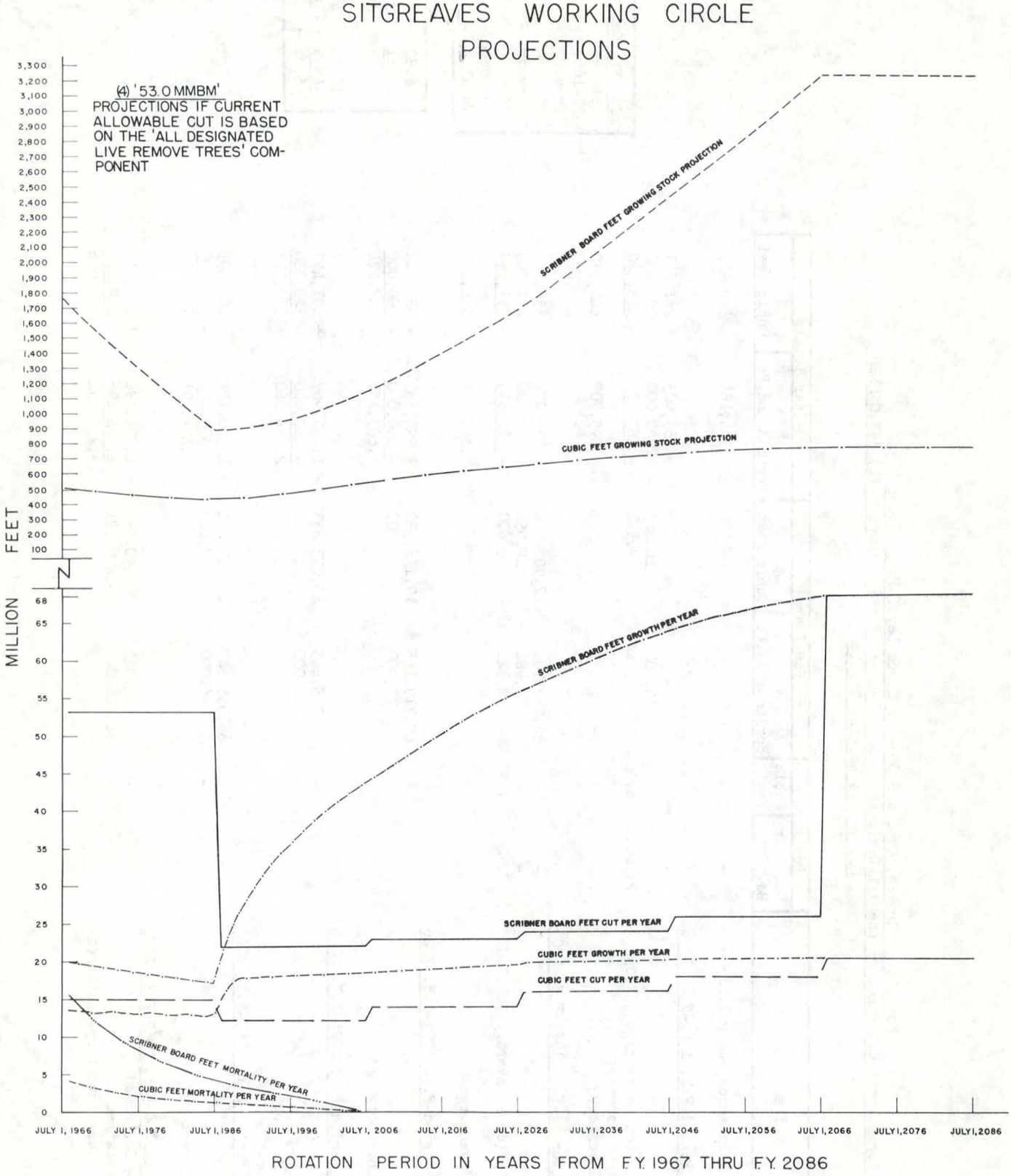
Table 45F

Mortality, Growth, Cut, and Growing Stock Level Projections
for Current Cut Based on the All Designated 'Live Remove' Trees Component (4) '53.0 MMBM'
Sitgreaves Working Circle

Item	Per Acre		Per Year		20-Year Totals	
	Scribner Bd. Ft.	Cubic Feet	M Scribner Bd.Ft.	M Cubic Feet	M Scribner Bd.Ft.	M Cubic Feet
Beginning Inventory-July 1, 1966	-	-	-	-	1,754,184	520,639
Cutting Period-F.Y. 1967-F.Y. 1986						
Growth	-	-	-	-	+ 369,003	+ 261,211
Cut	-	-	53,000	14,863	- 1,060,000	- 297,260
Mortality (on an average 357,856 acres)	23.40	6.04	8,374	2,161	- 167,480	- 43,220
Ending Inventory					895,707	441,370
Cutting Period-F.Y. 1987-F.Y. 2006						
Growth	-	-	36,963.704	17,907.794	+ 739,274	+ 358,156
Cut	-	-	21,984	12,052	- 439,680	- 241,040
Mortality (on an average 301,340 acres)	7.72	1.99	2,326	600	- 46,533	- 11,992
Ending Inventory					1,148,768	546,494
Cutting Period-F.Y. 2007-F.Y. 2026						
Growth	-	-	49,719.165	19,116.982	+ 994,383	+ 382,340
Cut	-	-	23,000	14,000	- 460,000	- 280,000
Ending Inventory					1,683,151	648,834
Cutting Period-F.Y. 2026-F.Y. 2046						
Growth	-	-	61,745.445	20,073.833	+ 1,234,909	+ 401,477
Cut	-	-	24,000	16,000	- 480,000	- 320,000
Ending Inventory					2,438,060	730,311
Cutting Period-F.Y. 2047-F.Y. 2066						
Growth	-	-	66,056.547	20,384.741	+ 1,321,131	+ 407,695
Cut	-	-	26,000	18,000	- 520,000	- 360,000
Ending Inventory					3,239,191	778,006
Cutting Period-F.Y. 2067-F.Y. 2086						
Growth - Sustained	-	-	68,724.823	20,470.591	+ 1,374,496	+ 409,412
Cut - Sustained	-	-	68,724.823	20,470.591	- 1,374,496	- 409,412
Growing Stock Inventory-Sustained					3,239,191	778,006

Cu. Ft. Cut/Year		
Removal	-	2,259 M
11-16"	-	1,352 M
Prep.	-	5,832 M
		9,443 M
Topwood	-	127.72
		12,061 M
Pulpwood	-	2,802 M
Total	-	14,863 M

4.82	18.53
91.11	91.11
4.39	16.88
10.43	40.28
-4.39	-16.88
6.04	23.40


SITGREAVES WORKING CIRCLE
PROJECTIONS
(4) '53.0 MMBM'
PROJECTIONS IF CURRENT ALLOWABLE CUT IS BASED ON THE 'ALL DESIGNATED LIVE REMOVE TREES' COMPONENT
SCRIBNER BOARD FEET GROWING STOCK PROJECTION
CUBIC FEET GROWING STOCK PROJECTION
SCRIBNER BOARD FEET GROWTH PER YEAR
SCRIBNER BOARD FEET CUT PER YEAR
CUBIC FEET GROWTH PER YEAR
CUBIC FEET CUT PER YEAR
SCRIBNER BOARD FEET MORTALITY PER YEAR
CUBIC FEET MORTALITY PER YEAR
MILLION FEET
3,300
3,200
3,100
3,000
2,900
2,800
2,700
2,600
2,500
2,400
2,300
2,200
2,100
2,000
1,900
1,800
1,700
1,600
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200
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68
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60
55
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45
40
35
30
25
20
15
10
5
0
JULY 1, 1966
JULY 1, 1976
JULY 1, 1986
JULY 1, 1996
JULY 1, 2006
JULY 1, 2016
JULY 1, 2026
JULY 1, 2036
JULY 1, 2046
JULY 1, 2056
JULY 1, 2066
JULY 1, 2076
JULY 1, 2086
ROTATION PERIOD IN YEARS FROM F.Y. 1967 THRU F.Y. 2086

Figure 8

6. Growth Calculations by Using Site Indices

a. Calculation of Periodic Annual Growth

Sitgreaves Working Circle

Sitgreaves National Forest

Table 46

Stand Symbol	Stand Classification	Working Groups Technical 110 Yrs Acres	Working Groups Administrative 190 Yrs Acres	Optimum Basal Area Stocking Per Acre 1/ Sq. Ft.	Actual Basal Area Stocking Per Acre 2/ Sq. Ft.	Percent of Actual to Optimum Stocking 3/	Per Acre Mean Annual Growth at Optimum Stocking 4/ 110 yr	190 yr	Per Acre Periodic Annual Growth as Derived from Mean Annual Growth 110 yr	190 yr	Working Circle Periodic Annual Growth 110 yr	190 yr	Per Acre Mean Annual Growth at Optimum Stocking 5/ 110 yr	190 yr	Per Acre Periodic Annual Growth as Derived from Mean Annual Growth 110 yr	190 yr	Working Circle Periodic Annual Growth 110 yr	190 yr	Per Acre Mean Annual Growth at Optimum Stocking 6/ 110 yr	190 yr	Per Acre Periodic Annual Growth as Derived from Mean Annual Growth 110 yr	190 yr	Working Circle Periodic Annual Growth 110 yr	190 yr
OPERABLE AREAS							-Net Scribner Rule Board Feet, Trees 11.6" and over DBH-						-Net International Rule Bd. Ft.,						- -Net Cubic Feet, Trees 0.6" & Over D.B.H.- - - - -					
PONDEROSA PINE																	Trees 6.6" & over D.B.H.-							
Site Class I - High - Average Site Index 80																								
PI-C	Cutover Sawtimber	6,045	545	113	74.00	65.49	210	217	138	142	834,210	77,390	313	278	205	182	1,239,225	99,190	54	40	35	26	211,575	14,170
PI-V	Virgin Sawtimber	2,301	206	113	132.00	116.81	210	217	210	217	483,210	44,702	313	278	313	278	720,213	57,268	54	40	54	40	124,254	8,240
	Sub-Total	8,344	753				Weighted		158	162	1,317,420	122,092	Weighted		235	208	1,959,438	156,458	Weighted		40	30	335,829	22,410
			9,097				Average		158			1,439,512	Average		233			2,115,896	Average		39			358,239
Site Class II - Medium - Average Site Index 65																								
PI-C	Cutover Sawtimber	139,013	12,533	100	73.10	73.10	120	150	88	110	12,233,144	1,378,630	193	198	141	145	19,600,833	1,817,285	42	32	31	23	4,309,403	288,259
P2=C	Cutover Poletimber	74,104	18,776	100	100.00	100.00	28	28	28	28	2,074,912	525,728	94	94	94	94	6,965,776	1,764,944	50	50	50	50	3,705,200	938,800
PI-V	Virgin Sawtimber	23,011	2,056	100	84.00	84.00	120	150	101	126	2,324,111	259,056	193	198	162	166	3,727,782	341,296	42	32	35	27	805,385	55,512
PI=V	Virgin Sawtimber	3,957	-	100	115.71	115.71	120	150	120	150	474,840	-	193	198	193	198	763,701	-	42	32	42	32	166,194	-
	Sub-Total	240,085	33,365				Weighted		71	65	17,107,007	2,163,414	Weighted		129	118	31,058,092	3,923,525	Weighted		37	38	8,986,182	1,282,571
			273,450				Average		70			19,270,421	Average		127			34,981,617	Average		38			10,268,753
Site Class III - Low - Average Site Index 50																								
PI-C	Cutover Sawtimber	75,547	6,813	88	70.24	79.82	45	94	36	75	2,719,692	510,975	103	129	82	103	6,194,854	701,739	33	25	26	20	1,964,222	136,260
PI-V	Virgin Sawtimber	4,603	411	88	74.00	84.09	45	94	38	79	174,914	32,469	103	129	87	108	400,461	44,388	33	25	28	21	128,884	8,631
	Sub-Total	80,150	7,224				Weighted		36	75	2,894,606	543,444	Weighted		82	103	6,595,315	746,127	Weighted		26	20	2,093,106	144,891
			87,374				Average		39			3,438,050	Average		84			7,341,442	Average		26			2,237,997
		328,579	41,342				Weighted		65	68	21,319,033	2,828,950	Weighted		121	117	39,612,845	4,826,110	Weighted		35	35	11,415,117	1,449,872
Summary Ponderosa Pine			369,921				Average		65			24,147,983	Average		120			44,438,955	Average		35			12,864,989
Mixed-Conifer																								
Site Class II - Medium - Average Site Index 65																								
MCI-C	Cutover Sawtimber	5,554	5,224	100	112.00	112.00	120	150	120	150	666,480	783,600	193	198	193	198	1,071,922	1,034,352	42	32	42	32	233,268	167,168
MCI=C	Cutover Sawtimber	689	321	100	176.00	176.00	120	150	120	150	82,680	48,150	193	198	193	198	132,977	63,558	42	32	42	32	28,938	10,272
MCI-V	Virgin Sawtimber	5,810	-	100	110.00	110.00	120	150	120	150	697,200	-	193	198	193	198	1,121,330	-	42	32	42	32	244,020	-
		12,053	5,545				Weighted		120	150	1,446,360	831,750	Weighted		193	198	2,326,229	1,097,910	Weighted		42	32	506,226	177,440
Summary, Mixed-Conifer			17,598				Average		129			2,278,110	Average		195			3,424,139	Average		39			683,666
		340,632	46,887				Weighted		67	78	22,765,393	3,660,700	Weighted		123	126	41,939,074	5,924,020	Weighted		35	35	11,921,343	1,627,312
Total, Operable Areas			387,519				Average		68			26,426,093	Average		124			47,863,094	Average		35			13,548,655
INOPERABLE AREAS																								
PONDEROSA PINE																								
Site Class II - Medium - Average Site Index 65																								
PI-X	Virgin Sawtimber	6,044	5,534	100	84.00	84.00	120	150	101	126	610,444	697,284	193	198	162	166	979,128	918,644	42	32	35	27	211,540	149,418
P2-X	Virgin Poletimber	530	321	100	100.00	100.00	28	28	28	28	14,840	8,988	94	94	94	94	49,820	30,174	42	42	42	42	22,260	13,482
		6,574	5,855				Weighted		95	121	625,284	706,272	Weighted		157	162	1,028,948	948,818	Weighted		36	28	233,800	162,900
Summary Ponderosa Pine			12,429				Average		107			1,331,556	Average		159			1,977,766	Average		32			396,700
Mixed-Conifer																								
Site Class II - Medium - Average Site Index 65																								
MCI-X	Virgin Sawtimber	1,512	3,070	100	110.00	110.00	120	150	120	150	181,440	460,500	193	198	193	198	291,816	607,860	42	32	42	32	63,504	98,240
			4,582				Weighted Average		140			641,940	Weighted Average		196			899,676	Weighted Average		35			161,744
		8,086	8,925				Weighted		99	131	806,724	1,166,772	Weighted		163	174	1,320,764	1,556,678	Weighted		37	29	297,304	261,140
Total, Inoperable Areas			17,011				Average		116			1,973,496	Average		169			2,877,442	Average		33			558,444
		348,718	55,812				Weighted		68	86	23,572,117	4,827,472	Weighted		124	134	43,259,838	7,480,698	Weighted		35	34	12,218,647	1,888,452
Total, Producing Areas			404,530				Average		70			28,399,589	Average		125			50,740,536	Average		35			14,107,099
Aspen		-	1,358																					
Non-Stocked		16,499	1,335																					
TOTAL, WORKING CIRCLE		365,217	58,505				Weighted		65	83	23,572,117	4,827,472	Weighted		118	128	43,259,838	7,480,698	Weighted		33	32	12,218,647	1,888,452
			423,722				Average		67			28,399,589	Average		120			50,740,536	Average		33			14,107,099

1/ 57% of full stocking basal area as taken from Table 4, T.B. 630, average age poles, 60 years, sawtimber 110 years and 190 years.
2/ From stand tables compiled from inventory data.
3/ Actual basal area stocking divided by optimum basal area stocking.
4/ Mean annual growth Scribner rule bd. ft. from Table 25, T.B. 630.
5/ Mean annual growth International rule bd. ft. from Table 23, T.B. 630.
6/ Mean annual growth cubic feet from Table 21, T.B. 630.

Anticipated periodic annual growth per acre determined by multiplying the actual percent of basal area stocking by the mean annual growth.

Rotation age 110 yrs., Rotation Period 120 yrs. for the Technical Working Group.
Rotation age 190 yrs., Rotation Period 200 yrs. for the Administrative Working Group.

b. Calculation of Potential Mean Annual Growth

Sitgreaves Working Circle

Sitgreaves National Forest

Table 47

Site Class & Forest Type	Working Groups 1/ Technical 110 yrs	Working Groups 1/ Administrative 190 yrs	Per Acre Mean 2/ Annual Growth At Optimum Stocking 110 yrs	Per Acre Mean 2/ Annual Growth At Optimum Stocking 190 yrs	Working Circle Potential Mean Annual Growth 110 yrs	Working Circle Potential Mean Annual Growth 190 yrs	Per Acre Mean 3/ Annual Growth At Optimum Stocking 110 yrs	Per Acre Mean 3/ Annual Growth At Optimum Stocking 190 yrs	Working Circle Potential Mean Annual Growth 110 yrs	Working Circle Potential Mean Annual Growth 190 yrs	Per Acre Mean 4/ Annual Growth At Optimum Stocking 110 yrs	Per Acre Mean 4/ Annual Growth At Optimum Stocking 190 yrs	Working Circle Potential Mean Annual Growth 110 yrs	Working Circle Potential Mean Annual Growth 190 yrs
	Acres	Acres	-Net Scribner Rule Board Feet, Trees 11.6" and over D.B.H.				-Net International Rule Board Feet, Trees 6.6" and over D.B.H.				-Net Cubic feet, Trees 0.6" and over D.B.H.-			
OPERABLE AREAS														
Ponderosa Pine														
Site I - High	8,344	753	210	217	1,752,240	163,401	313	278	2,611,672	209,334	54	40	450,576	30,120
Site II - Medium	240,085	33,365	120	150	28,810,200	5,004,570	193	198	46,336,405	6,606,270	42	32	10,083,570	1,067,680
Site III - Low	80,150	7,224	45	94	3,606,750	679,056	103	129	8,255,450	931,896	33	25	2,644,950	180,600
Nonstocked(Site II)	16,499	1,335	120	150	1,979,880	200,250	193	198	3,184,307	264,330	42	32	692,958	42,720
Summary, Ponderosa Pine	345,078	42,677	105	142	36,149.070	6,047,277	175	188	60,387,834	8,011,830	40	31	13,872,054	1,321,120
Weighted Averages	387,755		109		42,196,347		176		68,399,664		39		15,193,174	
Mixed - Conifer														
Site II - Medium	12,053	5,545	120	150	1,446,360	831,750	193	198	2,326,229	1,097,910	42	32	506,226	177,440
Aspen (Site I)	-	1,358	210	217	-	294,686	313	278	-	377,524	54	40	-	54,320
Summary, Mixed-Conifer	12,053	6,903	120	163	1,446,360	1,126,436	193	214	2,326,229	1,475,434	42	34	506,226	231,760
Weighted Averages	18,956		136		2,572,796		201		3,801,663		39		737,986	
TOTAL, OPERABLE AREAS	357,131	49,580	105	145	37,595,430	7,173,713	176	191	62,714,063	9,487,264	40	31	14,378,280	1,552,880
Weighted Averages	406,711		110		44,769,143		178		72,201,327		39		15,931,160	
INOPERABLE AREAS														
Site II - Medium														
Ponderosa Pine	6,574	5,855	120	150	788,880	878,250	193	198	1,268,782	1,159,290	42	32	276,108	187,360
Mixed-Conifer	1,512	3,070	120	150	181,440	460,500	193	198	291,816	607,860	42	32	63,504	98,240
TOTAL, INOPERABLE AREAS	8,086	8,925	120	150	970,320	1,338,750	193	198	1,560,598	1,767,150	42	42	339,612	285,600
Weighted Averages	17,011		136		2,309,070		196		3,327,748		37		625,212	
TOTAL WORKING CIRCLE	365,217	58,505	105	145	38,565,750	8,512,463	176	192	64,274,661	11,254,414	40	31	14,717,892	1,838,480
Weighted Averages	423,722		111		47,078,213		178		75,529,075		39		16,556,372	

1/ Rotation age 110 yrs, Rotation Period 120 yrs. for the Technical Working Group.
Rotation age 190 yrs, Rotation Period 200 yrs. for the Administrative Working Group.
2/ Mean annual growth Scribner rule bd. ft. from Table 25, T.B. 630.
3/ Mean annual growth International rule bd. ft. from Table 23, T.B. 630.
4/ Mean annual growth Cubic feet from Table 21, T.B. 630.

7. Summation of Growth and Mortality Calculations from the Remeasurement of $\frac{1}{4}$-Acre Growth Plots

Table 48

Tabulation of Growth and Mortality Per Acre from the Remeasurement of $\frac{1}{4}$-Acre Growth Plots
Sitgreaves Working Circle

Block	No. of Plots	Gross Volume of Plots Bd. Ft.	Mortality Bd. Ft. Per Acre	Net Volumes Growth Bd. Ft. Per Acre	Net Volumes Ingrowth Bd. Ft. Per Acre
			- Summation of Annual Change in all Plots -		
Leonard Canyon	46	85,220	3,055	2,404	1,456
Big Chevelon	64	129,300	4,500	3,006	1,343
West Heber	75	130,630	3,647	2,837	1,226
East Heber	39	49,010	785	1,196	417
Pinedale	49	36,210	564	684	559
Showlow	35 (36)	28,410	756	429	468
Black River	36 (40)	1/ 32,190	550	965	750
	344 (349)	490,970	13,857	11,521	6,219
		÷ 87.25	÷ 344	÷ 344	÷ 344
Average Per Acre for Working Circle		5,627.16	40.28	33.49	18.08
					33.49
Annual Average Change		Total Net Growth --------			51.57 Bd.Ft. Per Acre
		Minimum Mortality -------			- 40.28 Bd.Ft. Per Acre
		Net Increase ----------			11.29 Bd.Ft. Per Acre

1/ Note: The gross volume was computed from 349 plots.
Growth and mortality was computed from 344 plots.

8. Calculation of Area Regulation

a. Working Circle Calculation of Area Regulation

Table 49

Acres to be entered or cut per year

	Technical Working Group	Administration Working Group	Total
Site I	7,421 ÷ 20 = 372	3,034 ÷ 20 = 152	524
Site II	263,976 ÷ 20 = 13,198	40,447 ÷ 20 = 2,022	15,220
Site III	85,734 ÷ 20 = 4,287	6,099 ÷ 20 = 305	4,592
Summary	357,131 ÷ 20 = 17,857	49,580 ÷ 20 = 2,479	20,336[1/]

Acres to be Regenerated per Year (Removal Cutting)

Site I	7,421 ÷ 120 = 62	3,034 ÷ 200 = 15	77
Site II	263,976 ÷ 120 = 2,199	40,447 ÷ 200 = 202	2,401
Dudley Burn	7,764 ÷ 20 = -388	200 ÷ 20 = -10	-398
Subtotal	1,811	192	2,003
Site III	85,734 ÷ 120 = 714	6,099 ÷ 200 = 31	745
Summary	357,131 ÷ 120 -(388)=2,587	49,580 ÷ 200-(10)=238	2,825

Acres to be Regenerated per Cutting Period

Site I	7,421 ÷ 6 = 1,237	3,034 ÷ 10 = 303	1,540
Site II	263,976 ÷ 6 = 43,996	40,447 ÷ 10 = 4,045	48,041
Dudley Burn	-7,764	-200	-7,964
Subtotal	36,232	3,845	40,077
Site III	85,734 ÷ 6 = 14,289	6,099 ÷ 10 = 610	14,899
Summary	357,131 ÷ 6 -(7,764)=51,758	49,580÷ 10 -(200)=4,758	56,516

Acres to be Examined or Cut for Pulpwood per Year

Site I	7,421 ÷ 10 = 742	3,034 ÷ 10 = 303	1,045
Site II	263,976 ÷ 10 = 26,398	40,447 ÷ 10 = 4,045	30,443
Site III	85,734 ÷ 10 = 8,573	6,099 ÷ 10 = 610	9,183
Summary	357,131 ÷ 10 = 35,713	49,580 ÷ 10 = 4,958	40,671

Acres to Receive Preparatory Cutting Each Year

Site I	372 - 62 = 310	152 - 15 = 137	447
Site II	13,198 - 1,811 = 11,387	2,022 - 192 = 1,830	13,217
Site III	4,287 - 714 = 3,573	305 - 31 = 274	3,847
Summary	17,857 - 2,587 = 15,270	2,479 - 238 = 2,241	17,511

1/ 406,711 ÷ 20 = 20,336

b. Chevelon Block - Calculation of Area Regulation

Table 50

	Technical Working Group	Administration Working Group	Total
Acres to be Entered or Cut per Year			
Site I	4,393 ÷ 20 = 220	1,675 ÷ 20 = 84	304
Site II	85,155 ÷ 20 = 4,258	10,257 ÷ 20 = 513	4,771
Site III	15,053 ÷ 20 = 753	1,312 ÷ 20 = 65	818
Summary	104,601 5,231	13,244 ÷ 20 = 662	5,893 1/
Acres to be Regenerated per year (Removal Cutting)			
Site I	4,393 ÷ 120 = 37	1,675 ÷ 200 = 8	45
Site II	85,155 ÷ 120 = 709	10,257 ÷ 200 = 51	760
Dudley Burn	7,764 ÷ 20 = - 388	200 ÷ 20 = - 10	-398
Subtotal	321	41	362
Site III	15,053 ÷ 120 = 125	1,312 ÷ 200 = 7	132
Summary	104,601 ÷ 120 -(388) = 483	13,244 ÷ 200 -(10) = 56	539
Acres to be Regenerated per Cutting Period			
Site I	4,393 ÷ 6 = 732	1,675 ÷ 10 = 168	900
Site II	85,155 ÷ 6 =14,193	10,257 ÷ 10 =1,026	15,219
Dudley Burn	-7,764	-200	-7,964
Subtotal	6,429	826	7,255
Site III	15,053 ÷ 6 = 2,509	1,312 ÷ 10 = 131	2,640
Summary	104,601 ÷ 6 - (7,764)=9,670	13,244 ÷ 10 -(200)=1,125	10,795
Acres to be Examined or Cut for Pulpwood per Year			
Site I	4,393 ÷ 10 = 439	1,675 ÷ 10 = 168	607
Site II	85,155 ÷ 10 = 8,516	10,257 ÷ 10 =1,026	9,542
Site III	15,053 ÷ 10 = 1,505	1,312 ÷ 10 = 131	1,636
Summary	104,601 10,460	13,244 ÷ 10 =1,325	11,785
Acres to receive Preparatory Cutting Each Year			
Site I	220 - 37 = 183	84 - 8 = 76	259
Site II	4,258 - 321 = 3,937	513 - 41 = 472	4,409
Site III	753 - 125 = 628	65 - 7 = 58	686
Summary	5,231 - 483 = 4,748	662 56 606	5,354

1/ 117,845 ÷ 20 = 5,893

c. Heber Block - Calculation of Area Regulation

Table 51

Acres to be Entered or Cut Per Year

	Technical Working Group	Administration Working Group	Total
Site I	2,089 ÷ 20 = 104	675 ÷ 20 = 34	138
Site II	88,084 ÷ 20 = 4,404	22,139 ÷ 20 = 1,106	5,510
Site III	31,593 ÷ 20 = 1,580	1,454 ÷ 20 = 73	1,653
Summary	121,766 ÷ 20 = 6,088	24,268 ÷ 20 = 1,213	7,301 1/

Acres to be Regenerated per year (Removal Cutting)

Site I	2,089 ÷ 120 = 17	675 ÷ 200 = 3	20
Site II	88,084 ÷ 120 = 734	22,139 ÷ 200 = 111	845
Site III	31,593 ÷ 120 = 263	1,454 ÷ 200 = 7	270
Summary	121,766 ÷ 120 = 1,014	24,268 ÷ 200 = 121	1,135

Acres to be Regenerated per Cutting Period

Site I	2,089 ÷ 6 = 348	675 ÷ 10 = 68	416
Site II	88,084 ÷ 6 = 14,681	22,139 ÷ 10 = 2,214	16,895
Site III	31,593 ÷ 6 = 5,265	1,454 ÷ 10 = 145	5,410
Summary	121,766 ÷ 6 = 20,294	24,268 ÷ 10 = 2,427	22,721

Acres to be Examined or Cut for Pulpwood per Year

Site I	2,089 ÷ 10 = 209	675 ÷ 10 = 68	277
Site II	88,084 ÷ 10 = 8,808	22,139 ÷ 10 = 2,214	11,022
Site III	31,593 ÷ 10 = 3,160	1,454 ÷ 10 = 145	3,305
Summary	121,766 ÷ 10 = 12,177	24,268 ÷ 10 = 2,427	14,604

Acres to receive Preparatory Cutting Each Year

Site I	104 - 17 = 87	34 - 3 = 31	118
Site II	4,404 - 734 = 3,670	1,106 - 111 = 995	4,665
Site III	1,580 - 263 = 1,317	73 - 7 = 66	1,383
Summary	6,088 - 1,014 = 5,074	1,213 - 121 = 1,092	6,166

1/ 146,034 ÷ 20 = 7,301

d. HEBER BLOCK - COCONINO COUNTY
CALCULATION OF AREA REGULATION

Table 52

Acres to be entered or Cut per year

	Technical Working Group	Administrative Working Group	Total
Site I	1,671 ÷ 20 = 83	402 ÷ 20 = 20	103
Site II	33,190 ÷ 20 = 1,659	13,899 ÷ 20 = 695	2,354
Site III	8,849 ÷ 20 = 443	724 ÷ 20 = 36	479
Summary	43,710 ÷ 20 = 2,185	15,025 ÷ 20 = 751	2,936

58,735 ÷ 20 = 2,936

Acres to be regenerated per year (removal cutting)

Site I	1,671 ÷ 120 = 14	402 ÷ 200 = 2	16
Site II	33,190 ÷ 120 = 277	13,899 ÷ 200 = 70	347
Site III	8,849 ÷ 120 = 73	724 ÷ 200 = 3	76
Summary	43,710 ÷ 120 = 364	15,025 ÷ 200 = 75	439

Acres to be regenerated per cutting period

Site I	1,671 ÷ 6 = 278	402 ÷ 10 = 41	319
Site II	33,190 ÷ 6 = 5,532	13,899 ÷ 10 = 1,390	6,922
Site III	8,849 ÷ 6 = 1,475	724 ÷ 10 = 72	1,547
Summary	43,710 ÷ 6 = 7,285	15,025 ÷ 10 = 1,503	8,788

Acres to be examined or cut for pulpwood per year

Site I	1,671 ÷ 10 = 167	402 ÷ 10 = 41	208
Site II	33,190 ÷ 10 = 3,319	13,899 ÷ 10 = 1,390	4,709
Site III	8,849 ÷ 10 = 885	724 ÷ 10 = 72	957
Summary	43,710 ÷ 10 = 4,371	15,025 ÷ 10 = 1,503	5,874

Acres to receive preparatory cutting each year

Site I	83 - 14 = 69	20 - 2 = 18	87
Site II	1,659 -277 = 1,382	695 - 70 = 625	2,007
Site III	443 - 73 = 370	36 - 3 = 33	403
Summary	2,185 - 364 = 1,821	751 - 75 = 676	2,497

e. HEBER BLOCK - NAVAJO COUNTY
CALCULATION OF AREA REGULATION

Table 53

Acres to be entered or Cut per year

	Technical Working Group	Administrative Working Group	Total
Site I	418 ÷ 20 = 21	273 ÷ 20 = 14	35
Site II	54,894 ÷ 20 = 2,745	8,240 ÷ 20 = 411	3,156
Site III	22,744 ÷ 20 = 1,137	730 ÷ 20 = 37	1,174
Summary	78,056 ÷ 20 = 3,903	9,243 ÷ 20 = 462	4,365

87,299 ÷ 20 = 4,365

Acres to be regenerated per year (removal cutting)

Site I	418 ÷ 120 = 3	273 ÷ 200 = 1	4
Site II	54,894 ÷ 120 = 457	8,240 ÷ 200 = 41	498
Site III	22,744 ÷ 120 = 190	730 ÷ 200 = 4	194
Summary	78,056 ÷ 120 = 650	9,243 ÷ 200 = 46	696

Acres to be regenerated per cutting period

Site I	418 ÷ 6 = 70	273 ÷ 10 = 27	97
Site II	54,894 ÷ 6 =9,149	8,240 ÷ 10 = 824	9,973
Site III	22,744 ÷ 6 =3,790	730 ÷ 10 = 73	3,863
Summary	78,056 ÷ 6 = 13,009	9,243 ÷ 10 = 924	13,933

Acres to be examined or cut for pulpwood per year

Site I	418 ÷ 10 = 42	273 ÷ 10 = 27	69
Site II	54,894 ÷ 10 = 5,489	8,240 ÷ 10 = 824	6,313
Site III	22,744 ÷ 10 = 2,275	730 ÷ 10 = 73	2,348
Summary	78,056 ÷ 10 = 7,806	9,243 ÷ 10 = 924	8,730

Acres to receive preparatory cutting each year

Site I	21 - 3 = 18	14 - 1 = 13	31
Site II	2,745 - 457 = 2,288	411 -41 = 370	2,658
Site III	1,137 - 190 = 947	37 - 4 = 33	980
Summary	3,903 - 650 = 3,253	462 -46 = 416	3,669

f. Lakeside Block - Calculation of Area Regulation

Table 54

	Technical Working Group	Administration Working Group	Total
Acres to be Entered or Cut Per Year			
Site I	633 ÷ 20 = 32	674 ÷ 20 = 34	66
Site II	42,608 ÷ 20 = 2,130	5,474 ÷ 20 = 274	2,404
Site III	14,502 ÷ 20 = 725	2,677 ÷ 20 = 134	859
Summary	57,743 ÷ 20 = 2,887	8,825 ÷ 20 = 442	3,329 1/
Acres to be Regenerated per year (Removal Cutting)			
Site I	633 ÷ 120 = 5	674 ÷ 200 = 4	9
Site II	42,608 ÷ 120 = 355	5,474 ÷ 200 = 27	382
Site III	14,502 ÷ 120 = 121	2,677 ÷ 200 = 14	135
Summary	57,743 ÷ 120 = 481	8,825 ÷ 200 = 45	526
Acres to be Regenerated per Cutting Period			
Site I	633 ÷ 6 = 106	674 ÷ 10 = 67	173
Site II	42,608 ÷ 6 = 7,101	5,474 ÷ 10 = 547	7,648
Site III	14,502 ÷ 6 = 2,417	2,677 ÷ 10 = 268	2,685
Summary	57,743 ÷ 6 = 9,624	8,825 ÷ 10 = 882	10,506
Acres to be Examined or Cut for Pulpwood per Year			
Site I	633 ÷ 10 = 63	674 ÷ 10 = 67	130
Site II	42,608 ÷ 10 = 4,261	5,474 ÷ 10 = 547	4,808
Site III	14,502 ÷ 10 = 1,450	2,677 ÷ 10 = 268	1,718
Summary	57,743 ÷ 10 = 5,774	8,825 ÷ 10 = 882	6,656
Acres to receive Preparatory Cutting Each Year			
Site I	32 - 5 = 27	34 - 4 = 30	57
Site II	2,130 - 355 = 1,775	274 - 27 = 247	2,022
Site III	725 - 121 = 604	134 - 14 = 120	724
Summary	2,887 - 481 = 2,406	442 - 45 = 397	2,803

1/ 66,568 ÷ 20 = 3,329

g. LAKESIDE BLOCK - APACHE COUNTY
CALCULATION OF AREA REGULATION

Table 55

Acres to be entered or Cut per year

	Technical Working Group	Administrative Working Group	Total
Site I	572 ÷ 20 = 29	674 ÷ 20 = 34	63
Site II	24,796 ÷ 20 = 1,240	1,081 ÷ 20 = 54	1,294
Site III	6,388 ÷ 20 = 319	78 ÷ 20 = 4	323
Summary	31,756 ÷ 20 = 1,588	1,833 ÷ 20 = 92	1,680

33,589 ÷ 20 = 1,680

Acres to be regenerated per year (removal cutting)

Site I	572 ÷ 120 = 4	674 ÷ 200 = 4	8
Site II	24,796 ÷ 120 = 207	1,081 ÷ 200 = 5	212
Site III	6,388 ÷ 120 = 53	78 ÷ 200 = 1	54
Summary	31,756 ÷ 120 = 264	1,833 ÷ 200 = 10	274

Acres to be regenerated per cutting period

Site I	572 ÷ 6 = 96	674 ÷ 10 = 67	163
Site II	24,796 ÷ 6 = 4,132	1,081 ÷ 10 = 108	4,240
Site III	6,388 ÷ 6 = 1,065	78 ÷ 10 = 8	1,073
Summary	31,756 5,293	1,833 ÷ 10 = 183	5,476

Acres to be examined or cut for pulpwood per year

Site I	572 ÷ 10 = 57	674 ÷ 10 = 67	124
Site II	24,796 ÷ 10 = 2,480	1,081 ÷ 10 = 108	2,588
Site III	6,388 ÷ 10 = 639	78 ÷ 10 = 8	647
Summary	31,756 ÷ 10 = 3,176	1,833 ÷ 10 = 183	3,359

Acres to receive preparatory Cutting each year

Site I	29 - 4 = 25	34 - 4 = 30	55
Site II	1,240 -207 = 1,033	54 - 5 = 49	1,082
Site III	319 - 53 = 266	4 - 1 = 3	269
Summary	1,588 -264 = 1,324	92 - 10 = 82	1,406

h. LAKESIDE BLOCK - NAVAJO COUNTY
CALCULATION OF AREA REGULATION

Table 56

Acres to be entered or Cut per year

	Technical Working Group	Administrative Working Group	Total
Site I	61 ÷ 20 = 3	- - -	3
Site II	17,812 ÷ 20 = 890	4,393 ÷ 20 = 220	1,110
Site III	8,114 ÷ 20 = 406	2,599 ÷ 20 = 130	536
Summary	25,987 ÷ 20 = 1,299	6,992 ÷ 20 = 350	1,649

32,979 ÷ 20 = 1,649

Acres to be regenerated per year (removal cutting)

Site I	61 ÷ 120 = 1	- - -	1
Site II	17,812 ÷ 120 = 148	4,393 ÷ 200 = 22	170
Site III	8,114 ÷ 120 = 68	2,599 ÷ 200 = 13	81
Summary	25,987 ÷ 120 = 217	6,992 ÷ 200 = 35	252

Acres to be regenerated per cutting period

Site I	61 ÷ 6 = 10	- - -	10
Site II	17,812 ÷ 6 = 2,969	4,393 ÷ 10 = 439	3,408
Site III	8,114 ÷ 6 = 1,352	2,599 ÷ 10 = 260	1,612
Summary	25,987 ÷ 6 = 4,331	6,992 ÷ 10 = 699	5,030

Acres to be examined or cut for pulpwood per year

Site I	61 ÷ 10 = 6	- - -	6
Site II	17,812 ÷ 10 = 1,781	4,393 ÷ 10 = 439	2,220
Site III	8,114 ÷ 10 = 811	2,599 ÷ 10 = 260	1,071
Summary	25,987 ÷ 10 = 2,598	6,992 ÷ 10 = 699	3,297

Acres to receive preparatory Cutting each year

Site I	3 - 1 = 2	- - -	2
Site II	890 -148 = 742	220 - 22 = 198	940
Site III	406 - 68 = 338	130 - 13 = 117	455
Summary	1,299 -217 = 1,082	350 - 35 = 315	1,397

i. Pinedale Block - Calculation of Area Regulation

Table 57

Acres to be Entered or Cut Per Year

	Technical Working Group	Administrative Working Group	Total
Site I	306 ÷ 20 = 16	10 ÷ 20 = 0	16
Site II	48,129 ÷ 20 = 2,406	2,577 ÷ 20 = 129	2,535
Site III	24,586 ÷ 20 = 1,229	656 ÷ 20 = 33	1,262
Summary	73,021 ÷ 20 = 3,651	3,243 ÷ 20 = 162	3,813

Acres to be Regenerated per year (Removal Cutting)

Site I	306 ÷ 120 = 3	10 ÷ 200 = 0	3
Site II	48,129 ÷ 120 = 401	2,577 ÷ 200 = 13	414
Site III	24,586 ÷ 120 = 205	656 ÷ 200 = 3	208
Summary	73,021 ÷ 120 = 609	3,243 ÷ 200 = 16	625

Acres to be Regenerated per Cutting Period

Site I	306 ÷ 6 = 51	10 ÷ 10 = 0	51
Site II	48,129 ÷ 6 = 8,021	2,577 ÷ 10 = 258	8,279
Site III	24,586 ÷ 6 = 4,098	656 ÷ 10 = 66	4,164
Summary	73,021 ÷ 6 = 12,170	3,243 ÷ 10 = 324	12,494

Acres to be Examined or Cut for Pulpwood per Year

Site I	306 ÷ 10 = 31	10 ÷ 10 = 0	31
Site II	48,129 ÷ 10 = 4,813	2,577 ÷ 10 = 258	5,071
Site III	24,586 ÷ 10 = 2,458	656 ÷ 10 = 66	2,524
Summary	73,021 ÷ 10 = 7,302	3,243 ÷ 10 = 324	7,626

Acres to receive Preparatory Cutting Each Year

Site I	16 - 3 = 13	0 - 0 = 0	13
Site II	2,406 - 401 = 2,005	129 - 13 = 116	2,121
Site III	1,229 - 205 = 1,024	33 - 3 = 30	1,054
Summary	3,651 - 609 = 3,042	162 - 16 = 146	3,188

9. Area Regulation Statements

a. Chevelon Block - Area Regulation

Table 58

		Technical Working Group	Administrative Working Group	Summary
Acres to be Entered or Cut Per Year	Site I	220	84	304
	Site II	4,258	513	4,771
	Site III	753	65	818
	Summary	5,231	662	5,893
Acres to be Regenerated Per Year (Removal Cutting)	Site I	37	8	45
	Site II	321	41	362
	Site III	125	7	132
	Summary	483	56	539
Acres to be Regenerated Per Cutting Period	Site I	732	168	900
	Site II	6,429	826	7,255
	Site III	2,509	131	2,640
	Summary	9,670	1,125	10,795
Acres to be 1/ Examined or cut for Pulpwood Per Year	Site I	439	168	607
	Site II	8,516	1,026	9,542
	Site III	1,505	131	1,636
	Summary	10,460	1,325	11,785
Acres to Receive Preparatory Cutting Each Year	Site I	183	76	259
	Site II	3,937	472	4,409
	Site III	628	58	686
	Summary	4,748	606	5,354

1/ This acreage is not part of the control for area regulation.

b. Heber Block - Area Regulation

Table 59

		Technical Working Group	Administrative Working Group	Summary
Acres to be Entered or Cut Per Year	Site I	104	34	138
	Site II	4,404	1,106	5,510
	Site III	1,580	73	1,653
	Summary	6,088	1,213	7,301
Acres to be Regenerated Per Year (Removal Cutting)	Site I	17	3	20
	Site II	734	111	845
	Site III	263	7	270
	Summary	1,014	121	1,135
Acres to be Regenerated Per Cutting Period	Site I	348	68	416
	Site II	14,681	2,214	16,895
	Site III	5,265	145	5,410
	Summary	20,294	2,427	22,721
Acres to be 1/ Examined or Cut for Pulpwood Per Year	Site I	209	68	277
	Site II	8,808	2,214	11,022
	Site III	3,160	145	3,305
	Summary	12,177	2,427	14,604
Acres to Receive Preparatory Cutting Each Year	Site I	87	31	118
	Site II	3,670	995	4,665
	Site III	1,317	66	1,383
	Summary	5,074	1,092	6,166

1/ This acreage is not part of the control for area regulation.

c. HEBER BLOCK - COCONINO COUNTY
AREA REGULATION

Table 60

Item		Technical Working Group	Administrative Working Group	Summary
Acres to be entered or cut per year	Site I	83	20	103
	Site II	1,659	695	2,354
	Site III	443	36	479
	Summary	2,185	751	2,936
Acres to be regenerated per year (Removal Cutting)	Site I	14	2	16
	Site II	277	70	347
	Site III	73	3	76
	Summary	364	75	439
Acres to be regenerated per cutting period	Site I	278	41	319
	Site II	5,532	1,390	6,922
	Site III	1,475	72	1,547
	Summary	7,285	1,503	8,788
Acres to be[1/] examined or cut for pulpwood per year	Site I	167	41	208
	Site II	3,319	1,390	4,709
	Site III	885	72	957
	Summary	4,371	1,503	5,874
Acres to receive preparatory cutting each year	Site I	69	18	87
	Site II	1,382	625	2,007
	Site III	370	33	403
	Summary	1,821	676	2,497

1/ This acreage is not part of the control for area regulation.

d. HEBER BLOCK - NAVAJO COUNTY
AREA REGULATION

Table 61

Item		Technical Working Group	Administrative Working Group	Summary
Acres to be entered or cut per year	Site I	21	14	35
	Site II	2,745	411	3,156
	Site III	1,137	37	1,174
	Summary	3,903	462	4,365
Acres to be regenerated per year (Removal Cutting)	Site I	3	1	4
	Site II	457	41	498
	Site III	190	4	194
	Summary	650	46	696
Acres to be regenerated per cutting period	Site I	70	27	97
	Site II	9,149	824	9,973
	Site III	3,790	73	3,863
	Summary	13,009	924	13,933
Acres to be[1/] examined or cut for pulpwood per year	Site I	42	27	69
	Site II	5,489	824	6,313
	Site III	2,275	73	2,348
	Summary	7,806	924	8,730
Acres to receive preparatory cutting each year	Site I	18	13	31
	Site II	2,288	370	2,658
	Site III	947	33	980
	Summary	3,253	416	3,669

1/ This acreage is not part of the control for area regulation.

Table 62

		Technical Working Group	Administrative Working Group	Summary
Acres to be Entered or Cut Per Year	Site I	32	34	66
	Site II	2,130	274	2,404
	Site III	725	134	859
	Summary	2,887	442	3,329
Acres to be Regenerated Per Year (Removal Cutting)	Site I	5	4	9
	Site II	355	27	382
	Site III	121	14	135
	Summary	481	45	526
Acres to be Regenerated Per Cutting Period	Site I	106	67	173
	Site II	7,101	547	7,648
	Site III	2,417	268	2,685
	Summary	9,624	882	10,506
Acres to be [1/] Examined or cut for Pulpwood Per Year	Site I	63	67	130
	Site II	4,261	547	4,808
	Site III	1,450	268	1,718
	Summary	5,774	882	6,656
Acres to Receive Preparatory Cutting Each Year	Site I	27	30	57
	Site II	1,775	247	2,022
	Site III	604	120	724
	Summary	2,406	397	2,803

1/ This acreage is not part of the control for area regulation.

f. LAKESIDE BLOCK - APACHE COUNTY AREA REGULATION

Table 63

Item		Technical Working Group	Administrative Working Group	Summary
Acres to be entered or cut per year	Site I	29	34	63
	Site II	1,240	54	1,294
	Site III	319	4	323
	Summary	1,588	92	1,680
Acres to be regenerated per year (Removal Cutting)	Site I	4	4	8
	Site II	207	5	212
	Site III	53	1	54
	Summary	264	10	274
Acres to be regenerated per cutting period	Site I	96	67	163
	Site II	4,132	108	4,240
	Site III	1,065	8	1,073
	Summary	5,293	183	5,476
Acres to be [1/] examined or cut for pulpwood per year	Site I	57	67	124
	Site II	2,480	108	2,588
	Site III	639	8	647
	Summary	3,176	183	3,359
Acres to receive preparatory cutting each year	Site I	25	30	55
	Site II	1,033	49	1,082
	Site III	266	3	269
	Summary	1,324	82	1,406

1/ This acreage is not part of the control for area regulation.

g. LAKESIDE BLOCK - NAVAJO COUNTY AREA REGULATION

Table 64

Item		Technical Working Group	Administrative Working Group	Summary
Acres to be entered or cut per year	Site I	3	-	3
	Site II	890	220	1,110
	Site III	406	130	536
	Summary	1,299	350	1,649
Acres to be regenerated per year (Removal Cutting)	Site I	1	-	1
	Site II	148	22	170
	Site III	68	13	81
	Summary	217	35	252
Acres to be regenerated per cutting period	Site I	10	-	10
	Site II	2,969	439	3,408
	Site III	1,352	260	1,612
	Summary	4,331	699	5,030
Acres to be[1/] examined or cut for pulpwood per year	Site I	6	-	6
	Site II	1,781	439	2,220
	Site III	811	260	1,071
	Summary	2,598	699	3,297
Acres to receive preparatory cutting each year	Site I	2	-	2
	Site II	742	198	940
	Site III	338	117	455
	Summary	1,082	315	1,397

1/ This acreage is not part of the control for area regulation.

h. Pinedale Block - Area Regulation

Table 65

		Technical Working Group	Administrative Working Group	Summary
Acres to be Entered or Cut Per Year	Site I	16	-	16
	Site II	2,406	129	2,535
	Site III	1,229	33	1,262
	Summary	3,651	162	3,813
Acres to be Regenerated Per Year (Removal Cutting)	Site I	3	-	3
	Site II	401	13	414
	Site III	205	3	208
	Summary	609	16	625
Acres to be Regenerated Per Cutting Period	Site I	51	-	51
	Site II	8,021	258	8,279
	Site III	4,098	66	4,164
	Summary	12,170	324	12,494
Acres to be[1/] Examined or Cut For Pulpwood Per Year	Site I	31	-	31
	Site II	4,813	258	5,071
	Site III	2,458	66	2,524
	Summary	7,302	324	7,626
Acres to Receive Preparatory Cutting Each Year	Site I	13	-	13
	Site II	2,005	116	2,121
	Site III	1,024	30	1,054
	Summary	3,042	146	3,188

1/ This acreage is not part of the control for area regulation.

10. Allowable Cut Statements

Allowable Cut and Cutting Limitations

a. Available Annual Cut for this Period, F.Y. 1967 through F.Y. 1973

CHEVELON BLOCK

Table 66

Item		CUTTING METHOD						
		Intermediate	Salvage	Regeneration				Total
				Group, Patch, Strip, Stand	Shelterwood or Seed Tree		Selection	
					Preparatory & Seed 1/	Removal 2/		
Regulated area to examine (Acres)		-	-	-	-	-	-	11,785
Average No. of Compartments to examine (No. of Subdivided Comp)		-	-	-	-	-	-	15
Est. Average area to cut (Acres)	Not Reg.	11,785 3/	101,292 3/					113,077 3/
	Area Reg.	-	-	-	5,354	539	-	5,893

ESTIMATED AVERAGE YIELD

TECHNICAL WORKING GROUP

A. SAWTIMBER - (16.0" and over d.b.h.-includes 11.0" through 15.9" d.b.h. with Grade IV or better butt log)

Scribner rule MMBM	-	-	-	14.204	2.287	-	16.491
International ¼" Rule MMBM	-	-	-	16.334	2.631	-	18.965
MM Cubic Feet	-	-	-	2.537	0.408	-	2.945

B. 4/ SAWTIMBER -(11.0" through 15.9" d.b.h. with no butt log better than Grade V)

Scribner rule MMBM	-	-	-	2.490	-	-	2.490
International ¼" Rule MMBM	-	-	-	2.864	-	-	2.864
MM Cubic Feet	-	-	-	0.445	-	-	0.445

ADMINISTRATIVE WORKING GROUP (Also includes average annual sound mortality)

C. SAWTIMBER - (16.0" and over d.b.h.-includes 11.0" through 15.9 d.b.h. with Grade IV or better butt log)

Scribner rule MMBM	-	-	-	1.383	0.297	-	1.680
International ¼" Rule MMBM	-	-	-	1.591	0.341	-	1.932
MM Cubic Feet	-	-	-	0.248	0.052	-	0.300

D. 4/ SAWTIMBER - (11.0" through 15.9" d.b.h. with no butt log better than Grade V)

Scribner rule MMBM	-	-	-	0.339	-	-	0.339
International ¼" Rule MMBM	-	-	-	0.390	-	-	0.390
MM Cubic Feet	-	-	-	0.061	-	-	0.061

Summary: Scribner rule MMBM - 21.000
International ¼" rule MMBM - 24.150
MM Cubic Feet - 3.751

OTHER PRODUCTS

E. PULPWOOD (5.0" through 10.9" d.b.h.)

MM Cubic Feet	0.683	-	-	-	-	-	0.683
M Cords	9.481	-	-	-	-	-	9.481

F. ROUNDWOOD IN SAWTIMBER TOPS

MM Cubic Feet	-	-	-	0.402	0.117	-	0.519
M Cords	-	-	-	5.580	1.626	-	7.206

Summary: MM Cubic Feet - 1.202
M Cords - 16.687

UNREGULATED ADDITIONAL CUT OBJECTIVE

5/ SAWTIMBER - (11.0" and over d.b.h.)

Scribner rule MMBM	-	3.590	-	-	-	-	3.590
International ¼" rule MMBM	-	4.128	-	-	-	-	4.128
MM Cubic Feet	-	0.641	-	-	-	-	0.641
M Cords	-	8.903	-	-	-	-	8.903

NONCONVERTIBLE PRODUCTS

CHRISTMAS TREES

No. of trees	7,000	-	-	-	-	-	7,000

1/ Includes partial cutting.

2/ Includes release cutting.

3/ This area is not included in the area regulation.

4/ This allowable cut is available only if harvested from the stem sizes 11.0" through 15.9" d.b.h. This wood is on stems that are to be taken from the young sawtimber size stands as thinners and toppers. This will be done to improve the spacing of the trees in the stands. When the stands are thinned to optimum basal area requirements, increased growth on the residual stems will take place. The allowable cut volume established for this size and kind of material is not interchangeable with the other sawtimber size allowable cut.

5/ This unregulated material is available only if recovered from areas on the Forest which are not currently included within a going timber sale. This is material that will be harvested from trees that have recently died and are still sound or from trees that have been successfully attacked by a killing agent. It is planned that this material be recovered by small woods operators who have simple, mobile equipment that can move easily from one place to another. The logs recovered would probably be resold to the major sawmill operators in the area. This unregulated allowable cut is not interchangeable with the "live" tree allowable cuts. This allowable cut may be recovered from either of the two working groups; the Technical Working Group and the Administrative Working Group. This includes roadside zones. This material may be salvaged from the unregulated acreage annually.

Allowable Cut and Cutting Limitations

b. Available Annual Cut for this Period, F.Y. 1967 through F.Y. 1973

HEBER BLOCK

Table 67

Item		CUTTING METHOD						
		Inter-mediate	Salvage	Regeneration: Group, Patch, Strip, Stand	Regeneration: Shelterwood or Seed Tree: Preparatory & Seed 1/	Regeneration: Shelterwood or Seed Tree: Removal 2/	Selection	Total
Regulated area to examine (Acres)		-	-	-	-	-	-	14,604
Average No. of Compartments to examine (No. of Subdivided Comp)		-	-	-	-	-	-	18
Est. Average Area to cut (Acres)	Not Reg.	14,604 3/	135,587 3/	-	-	-	-	150,191 3/
	Area Reg.	-	-	-	6,166	1,135	-	7,301

ESTIMATED AVERAGE YIELD

TECHNICAL WORKING GROUP

A. SAWTIMBER - (16.0" and over d.b.h.-includes 11.0" through 15.9" d.b.h. with Grade IV or better butt log)

Scribner rule MMBM	-	-	-	13,807	6.443	-	20.250
International ¼" Rule MMBM	-	-	-	15.878	7.410	-	23.288
MM Cubic Feet	-	-	-	2.466	1.151	-	3.617

B. 4/ SAWTIMBER -(11.0" through 15.9" d.b.h. with no butt log better than Grade V)

Scribner rule MMBM	-	-	-	3.260	-	-	3.260
International ¼" Rule MMBM	-	-	-	3.749	-	-	3.749
MM Cubic Feet	-	-	-	0.582	-	-	0.582

ADMINISTRATIVE WORKING GROUP (Also includes average annual sound mortality)

C. SAWTIMBER - (16.0" and over d.b.h.-includes 11.0" through 15.9" d.b.h. with Grade IV or better butt log)

Scribner rule MMBM	-	-	-	2.917	0.630	-	3.547
International ¼" Rule MMBM	-	-	-	3.354	0.725	-	4.079
MM Cubic Feet	-	-	-	0.521	0.112	-	0.633

D. 4/ SAWTIMBER - (11.0" through 15.9" d.b.h. with no butt log better than Grade V)

Scribner rule MMBM	-	-	-	0.443	-	-	0.443
International ¼" Rule MMBM	-	-	-	0.509	-	-	0.509
MM Cubic Feet	-	-	-	0.079	-	-	0.079

Summary: Scribner rule MMBM - 27.500
International ¼" rule MMBM - 31.625
MM Cubic Feet - 4.911

OTHER PRODUCTS

E. PULPWOOD (5.0" through 10.9" d.b.h.)

MM Cubic Feet	1.015	-	-	-	-	-	1.015
M Cords	14.097	-	-	-	-	-	14.097

F. ROUNDWOOD IN SAWTIMBER TOPS

MM Cubic Feet	-	-	-	0.526	0.153	-	0.679
M Cords	-	-	-	7.306	2.130	-	9.436

Summary: MM Cubic Feet - 1.694
M Cords - 23.533

UNREGULATED ADDITIONAL CUT OBJECTIVE

5/ SAWTIMBER - (11.0" and over d.b.h.)

Scribner rule MMBM	-	4.806	-	-	-	-	4.806
International ¼" rule MMBM	-	5.527	-	-	-	-	5.527
MM Cubic Feet	-	0.858	-	-	-	-	0.858
M Cords	-	11.917	-	-	-	-	11.917

NONCONVERTIBLE PRODUCTS

CHRISTMAS TREES

No. of trees	3,000	-	-	-	-	-	3,000

1/ Includes partial cutting.
2/ Includes release cutting.
3/ This area is not included in the area regulation.
4/ This allowable cut is available only if harvested from the stem sizes 11.0" through 15.9" d.b.h. This wood is on stems that are to be taken from the young sawtimber size stands as thinners and toppers. This will be done to improve the spacing of the trees in the stands. When the stands are thinned to optimum basal area requirements, increased growth on the residual stems will take place. The allowable cut volume established for this size and kind of material is not interchangeable with the other sawtimber size allowable cut.
5/ This unregulated material is available only if recovered from areas on the Forest which are not currently included within a going timber sale. This is material that will be harvested from trees that have recently died and are still sound or from trees that have been successfully attacked by a killing agent. It is planned that this material be recovered by small woods operators who have simple, mobile equipment that can move easily from one place to another. The logs recovered would probably be resold to the major sawmill operators in the area. This unregulated allowable cut is not interchangeable with the "live" tree allowable cuts. This allowable cut may be recovered from either of the two working groups; the Technical Working Group and the Administrative Working Group. This includes roadside zones. This material may be salvaged from the unregulated acreage annually.

c. Available Annual Cut for the Period, F.Y. 1967 through F.Y. 1973

Heber Block, Coconino County

Table 68

Item		CUTTING METHOD						
		Intermediate	Salvage	Regeneration				Total
				Group, Patch, Strip, Stand	Shelterwood or Seed Tree		Selection	
					Preparatory & Seed 1/	Removal 2/		
Regulated area to examine (Acres)		-	-	-	-	-	-	5,874
Average No. of Compartments to examine		-	-	-	-	-	-	7
Est. Average Area to Cut (Acres)	Not Reg.	5,874 3/	54,655 3/	-	-	-	-	60,529 3/
	Area Reg.	-	-	-	2,497	439	-	2,936
ESTIMATED AVERAGE YIELD								
TECHNICAL WORKING GROUP								
A. SAWTIMBER - (16.0" and over d.b.h.-includes 11.0" through 15.9" d.b.h. with Grade IV or better butt log)								
Scribner rule MMBM		-	-	-	5.105	2.391	-	7.496
International ¼" Rule MMBM		-	-	-	5.871	2.750	-	8.621
MM Cubic Feet		-	-	-	0.912	0.427	-	1.339
B. 4/ SAWTIMBER - (11.0" through 15.9" d.b.h. with no butt log better than Grade V)								
Scribner rule MMBM		-	-	-	1.417	-	-	1.417
International ¼" Rule MMBM		-	-	-	1.630	-	-	1.630
MM Cubic Feet		-	-	-	0.253	-	-	0.253
ADMINISTRATIVE WORKING GROUP (Also includes average annual sound mortality)								
C. SAWTIMBER - (16.0" and over d.b.h.-includes 11.0" through 15.9" d.b.h. with Grade IV or better butt log)								
Scribner rule MMBM		-	-	-	2.453	0.393	-	2.846
International ¼" Rule MMBM		-	-	-	2.821	0.452	-	3.273
MM Cubic Feet		-	-	-	0.438	0.070	-	0.508
D. 4/ SAWTIMBER - (11.0" through 15.9" d.b.h. with no butt log better than Grade V)								
Scribner rule MMBM		-	-	-	0.193	-	-	0.193
International ¼" Rule MMBM		-	-	-	0.222	-	-	0.222
MM Cubic Feet		-	-	-	0.034	-	-	0.034

Summary: Scribner rule MMBM -11.952
International ¼" rule MMBM -13.746
MM Cubic Feet - 2.134

OTHER PRODUCTS								
E. PULPWOOD (5.0" through 10.9" d.b.h.)								
MM Cubic Feet	0.414	-	-	-	-	-	0.414	
M Cords	5.754	-	-	-	-	-	5.754	
F. ROUNDWOOD IN SAWTIMBER TOPS								
MM Cubic Feet	-	-	-	0.229	0.066	-	0.295	
M Cords	-	-	-	3.175	0.926	-	4.101	

Summary: MM Cubic Feet - 0.709
M Cords - 9.855

UNREGULATED ADDITIONAL CUT OBJECTIVE							
5/ SAWTIMBER - (11.0" and over d.b.h.)							
Scribner rule MMBM	-	1.937	-	-	-	-	1.937
International ¼" rule MMBM	-	2.228	-	-	-	-	2.228
MM Cubic Feet	-	0.346	-	-	-	-	0.346
M Cords	-	4.806	-	-	-	-	4.806
NONCONVERTIBLE PRODUCTS							
CHRISTMAS TREES							
No. of trees	3,450	-	-	-	-	-	3,450

1/ Includes partial cutting.
2/ Includes release cutting.
3/ This area is not included in the area regulation.
4/ This allowable cut is available only if harvested from the stem sizes 11.0" through 15.9" d.b.h. This wood is on stems that are to be taken from the young sawtimber size stands as thinners and toppers. This will be done to improve the spacing of the trees in the stands. When the stands are thinned to optimum basal area requirements, increased growth on the residual stems will take place. The allowable cut volume established for this size and kind of material is not interchangeable with the other sawtimber size allowable cut.
5/ This unregulated material is available only if recovered from areas on the Forest which are not currently included within a going timber sale. This is material that will be harvested from trees that have recently died and are still sound or from trees that have been successfully attacked by a killing agent. It is planned that this material be recovered by small woods operators who have simple, mobile equipment that can move easily from one place to another. The logs recovered would probably be resold to the major sawmill operators in the area. This unregulated allowable cut is not interchangeable with the "live" tree allowable cuts. This allowable cut may be recovered from either of the two working groups; the Technical Working Group and the Administrative Working Group. This includes roadside zones. This material may be salvaged from the unregulated acreage annually.

d. Available Annual Cut for the Period, F.Y. 1967 thro F.Y. 1973

Heber Block, Navajo County

Table 69

Item		CUTTING METHOD						
		Intermediate	Salvage	Regeneration				Total
				Group, Patch, Strip, Stand	Shelterwood or Seed Tree		Selection	
					Preparatory & Seed 1/	Removal 2/		
Regulated area to examine (Acres)		-	-	-	-	-	-	8,730
Average No. of Compartments to examine		-	-	-	-	-	-	11
Est. Average Area to Cut (Acres)	Not Reg.	8,730 3/	80,932 3/	-	-	-	-	89,662 3/
	Area Reg.	-	-	-	3,669	696	-	4,365
ESTIMATED AVERAGE YIELD								
TECHNICAL WORKING GROUP								
A SAWTIMBER - (16.0" and over d.b.h.-includes 11.0" through 15.9" d.b.h. with Grade IV or better butt log)								
Scribner rule MMBM		-	-	-	8.702	4.052	-	12.754
International ¼" Rule MMBM		-	-	-	10.007	4.660	-	14.667
MM Cubic Feet		-	-	-	1.554	0.724	-	2.278
B 4/ SAWTIMBER - (11.0" through 15.9" d.b.h. with no butt log better than Grade V)								
Scribner rule MMBM		-	-	-	1.843	-	-	1.843
International ¼" Rule MMBM		-	-	-	2.119	-	-	2.119
MM Cubic Feet		-	-	-	0.329	-	-	0.329
ADMINISTRATIVE WORKING GROUP (Also includes average annual sound mortality)								
C SAWTIMBER - (16.0" and over d.b.h.-includes 11.0" through 15.9" d.b.h. with Grade IV or better butt log)								
Scribner rule MMBM		-	-	-	0.464	0.237	-	0.701
International ¼" Rule MMBM		-	-	-	0.533	0.273	-	0.806
MM Cubic Feet		-	-	-	0.083	0.042	-	0.125
D 4/ SAWTIMBER - (11.0" through 15.9" d.b.h. with no butt log better than Grade V)								
Scribner rule MMBM		-	-	-	0.250	-	-	0.250
International ¼" Rule MMBM		-	-	-	0.287	-	-	0.287
MM Cubic Feet		-	-	-	0.045	-	-	0.045

Summary: Scribner rule MMBM - 15.548
International ¼" rule MMBM - 17.879
MM Cubic Feet - 2.777

OTHER PRODUCTS

E PULPWOOD (5.0" through 10.9" d.b.h.)							
MM Cubic Feet	0.601	-	-	-	-	-	0.601
M Cords	8.343	-	-	-	-	-	8.343
F ROUNDWOOD IN SAWTIMBER TOPS							
MM Cubic Feet	-	-	-	0.297	0.087	-	0.384
M Cords	-	-	-	4.131	1.204	-	5.335

Summary: MM Cubic Feet - 0.985
M Cords - 13.678

UNREGULATED ADDITIONAL CUT OBJECTIVE

5/ SAWTIMBER - (11.0" and over d.b.h.)							
Scribner rule MMBM	-	2.869	-	-	-	-	2.869
International ¼" rule MMBM	-	3.299	-	-	-	-	3.299
MM Cubic Feet	-	0.512	-	-	-	-	0.512
M Cords	-	7.111	-	-	-	-	7.111

NONCONVERTIBLE PRODUCTS

CHRISTMAS TREES

No. of trees	1,550	-	-	-	-	-	1,550

1/ Includes partial cutting.
2/ Includes release cutting.
3/ This area is not included in the area regulation.
4/ This allowable cut is available only if harvested from the stem sizes 11.0" through 15.9" d.b.h. This wood is on stems that are to be taken from the young sawtimber size stands as thinners and toppers. This will be done to improve the spacing of the trees in the stands. When the stands are thinned to optimum basal area requirements, increased growth on the residual stems will take place. The allowable cut volume established for this size and kind of material is not interchangeable with the other sawtimber size allowable cut.
5/ This unregulated material is available only if recovered from areas on the Forest which are not currently included within a going timber sale. This is material that will be harvested from trees that have recently died and are still sound or from trees that have been successfully attacked by a killing agent. It is planned that this material be recovered by small woods operators who have simple, mobile equipment that can move easily from one place to another. The logs recovered would probably be resold to the major sawmill operators in the area. This unregulated allowable cut is not interchangeable with the "live" tree allowable cuts. This allowable cut may be recovered from either of the two working groups; the Technical Working Group and the Administrative Working Group. This includes roadside zones. This material may be salvaged from the unregulated acreage annually.

Allowable Cut and Cutting Limitations

e. Available Annual Cut for this Period, F.Y. 1967 through F.Y. 1973

LAKESIDE BLOCK

Table 70

Item		CUTTING METHOD						
		Intermediate	Salvage	Regeneration: Group Patch, Strip, Stand	Regeneration: Shelterwood or Seed Tree: Preparatory & Seed 1/	Regeneration: Shelterwood or Seed Tree: Removal 2/	Regeneration: Selection	Total
Regulated area to examine (Acres)		-	-	-	-	-	-	6,656
Average No. of Compartments to examine (No. of Subdivided Comp)		-	-	-	-	-	-	8
Est. Average area to cut (Acres)	Not Reg.	6,656 3/	60,306 3/	-	-	-	-	66,962 3/
	Area Reg.	-	-	-	2,803	526	-	3,329

ESTIMATED AVERAGE YIELD

TECHNICAL WORKING GROUP

A. SAWTIMBER - 16.0" and over d.b.h.-includes 11.0" through 15.9" d.b.h. with Grade IV or better butt log)

Scribner Rule MMBM	-	-	-	2.185	2.124	-	4.309
International ¼" Rule MMBM	-	-	-	2.513	2.442	-	4.955
MM Cubic Feet	-	-	-	0.390	0.380	-	0.770

B. 4/ SAWTIMBER -(11.0" through 15.9" d.b.h. with no butt log better than Grade V)

Scribner Rule MMBM	-	-	-	0.676	-	-	0.676
International ¼" Rule MMBM	-	-	-	0.777	-	-	0.777
MM Cubic Feet	-	-	-	0.121	-	-	0.121

ADMINISTRATIVE WORKING GROUP (Also includes average annual sound mortality)

C. SAWTIMBER - (16.0" and over d.b.h.-includes 11.0" through 15.9"d.b.h. with Grade IV or Better butt log)

Scribner Rule MMBM	-	-	-	0.411	0.212	-	0.623
International ¼" Rule MMBM	-	-	-	0.473	0.243	-	0.716
MM Cubic Feet	-	-	-	0.073	0.038	-	0.111

D. 4/ SAWTIMBER - (11.0" through 15.9" d.b.h. with no butt log better than Grade V)

Scribner Rule MMBM	-	-	-	0.092	-	-	0.092
International ¼" Rule MMBM	-	-	-	0.106	-	-	0.106
MM Cubic Feet	-	-	-	0.016	-	-	0.016

Summary: Scribner Rule MMBM - 5.700
International ¼" Rule MMBM - 6.555
MM Cubic Feet - 1.018

OTHER PRODUCTS

E. PULPWOOD (5.0" through 10.9" d.b.h.)

MM Cubic Feet	0.459	-	-	-	-	-	0.459
M Cords	6.383	-	-	-	-	-	6.383

F. ROUNDWOOD IN SAWTIMBER TOPS

MM Cubic Feet	-	-	-	0.109	0.032	-	0.141
M Cords	-	-	-	1.514	0.441	-	1.955

Summary: MM Cubic Feet - 0.600
M Cords - 8.338

UNREGULATED ADDITIONAL CUT OBJECTIVE

5/ SAWTIMBER - (11.0" and over d.b.h.)

Scribner Rule MMBM	-	2.137	-	-	-	-	2.137
International ¼" Rule MMBM	-	2.458	-	-	-	-	2.458
MM Cubic Feet	-	0.382	-	-	-	-	0.382
M Cords	-	5.305	-	-	-	-	5.305

NONCONVERTIBLE PRODUCTS

CHRISTMAS TREES

No. of trees	300	-	-	-	-	-	300

1/ Includes partial cutting.
2/ Includes release cutting.
3/ This area is not included in the area regulation.
4/ This allowable cut is available only if harvested from the stem sizes 11.0" through 15.9" d.b.h. This wood is on stems that are to be taken from the young sawtimber size stands as thinners and toppers. This will be done to improve the spacing of the trees in the stands. When the stands are thinned to optimum basal area requirements, increased growth on the residual stems will take place. The allowable cut volume established for this size and kind of material is not interchangeable with the other sawtimber size allowable cut.
5/ This unregulated material is available only if recovered from areas on the Forest which are not currently included within a going timber sale. This is material that will be harvested from trees that have recently died and are still sound or from trees that have been successfully attacked by a killing agent. It is planned that this material be recovered by small woods operators who have simple, mobile equipment that can move easily from one place to another. The logs recovered would probably be resold to the major sawmill operators in the area. This unregulated allowable cut is not interchangeable with the "live" tree allowable cuts. This allowable cut may be recovered from either of the two working groups; the Technical Working Group and the Administrative Working Group. This includes roadside zones. This material may be salvaged from the unregulated acreage annually.

f. Available Annual Cut for the Period, F.Y. 1967 through F.Y. 1973

Lakeside Block, Apache County

Table 71

Item		CUTTING METHOD						
		Intermediate	Salvage	Regeneration				Total
				Group, Patch, Strip, Stand	Shelterwood or Seed Tree		Selection	
					Preparatory & Seed 1/	Removal 2/		
Regulated area to examine (Acres)		-	-	-	-	-	-	3,359
Average No. of Compartments to examine		-	-	-	-	-	-	4
Est. Average Area to Cut (Acres)	Not Reg.	3,359 3/	30,278 3/	-	-	-	-	33,637 3/
	Area Reg.	-	-	-	1,406	274	-	1,680
ESTIMATED AVERAGE YIELD								
TECHNICAL WORKING GROUP								
A. SAWTIMBER - (16.0" and over d.b.h.-includes 11.0" through 15.9" d.b.h. with Grade IV or better butt log)								
Scribner rule MMBM		-	-	-	0.840	0.929	-	1.769
International ¼" Rule MMBM		-	-	-	0.966	1.068	-	2.034
MM Cubic Feet		-	-	-	0.150	0.166	-	0.316
B. 4/ SAWTIMBER - (11.0" through 15.9" d.b.h. with no butt log better than Grade V)								
Scribner rule MMBM		-	-	-	0.309	-	-	0.309
International ¼" Rule MMBM		-	-	-	0.355	-	-	0.355
MM Cubic Feet		-	-	-	0.055	-	-	0.055
ADMINISTRATIVE WORKING GROUP (Also includes average annual sound mortality)								
C. SAWTIMBER - (16.0" and over d.b.h.-includes 11.0" through 15.9" d.b.h. with Grade IV or better butt log)								
Scribner rule MMBM		-	-	-	0.339	0.146	-	0.485
International ¼" Rule MMBM		-	-	-	0.390	0.168	-	0.558
MM Cubic Feet		-	-	-	0.061	0.026	-	0.087
D. 4/ SAWTIMBER - (11.0" through 15.9" d.b.h. with no butt log better than Grade V)								
Scribner rule MMBM		-	-	-	0.042	-	-	0.042
International ¼" Rule MMBM		-	-	-	0.048	-	-	0.048
MM Cubic Feet		-	-	-	0.007	-	-	0.007
Summary: Scribner rule MMBM - 2.605 International ¼" rule MMBM - 2.995 MM Cubic Feet - 0.465								
OTHER PRODUCTS								
E. PULPWOOD (5.0" through 10.9" d.b.h.)								
MM Cubic Feet		0.228	_	_	_	_	_	0.228
M Cords		3.176	-	-	-	-	-	3.176
F. ROUNDWOOD IN SAWTIMBER TOPS								
MM Cubic Feet		-	-	-	0.050	0.014	-	0.064
M Cords		-	-	-	0.692	0.201	-	0.893
Summary: MM Cubic Feet - 0.292 M Cords - 4.069								
UNREGULATED ADDITIONAL CUT OBJECTIVE								
5/ SAWTIMBER - (11.0" and over d.b.h.)								
Scribner rule MMBM		-	1.073	-	-	-	-	1.073
International ¼" Rule MMBM		-	1.234	-	-	-	-	1.234
MM Cubic Feet		-	0.192	-	-	-	-	0.192
M Cords		-	2.666	-	-	-	-	2.666
NONCONVERTIBLE PRODUCTS								
CHRISTMAS TREES								
No. of trees		300	-	-	-	-	-	300

1/ Includes partial cutting.

2/ Includes release cutting.

3/ This area is not included in the area regulation.

4/ This allowable cut is available only if harvested from the stem sizes 11.0" through 15.9" d.b.h. This wood is on stems that are to be taken from the young sawtimber size stands as thinners and toppers. This will be done to improve the spacing of the trees in the stands. When the stands are thinned to optimum basal area requirements, increased growth on the residual stems will take place. The allowable cut volume established for this size and kind of material is not interchangeable with the other sawtimber size allowable cut.

5/ This unregulated material is available only if recovered from areas on the Forest which are not currently included within a going timber sale. This is material that will be harvested from trees that have recently died and are still sound or from trees that have been successfully attacked by a killing agent. It is planned that this material be recovered by small woods operators who have simple, mobile equipment that can move easily from one place to another. The logs recovered would probably be resold to the major sawmill operators in the area. This unregulated allowable cut is not interchangeable with the "live" tree allowable cuts. This allowable cut may be recovered from either of the two working groups; the Technical Working Group and the Administrative Working Group. This includes roadside zones. This material may be salvaged from the unregulated acreage annually.

g. Available Annual Cut for the Period, F.Y. 1967 through F.Y. 1973

Lakeside Block, Navajo County

Table 72

Item		CUTTING METHOD						
		Intermediate	Salvage	Regeneration				Total
				Group, Patch, Strip, Stand	Shelterwood or Seed Tree		Selection	
					Preparatory & Seed 1/	Removal 2/		
Regulated area to examine (Acres)		-	-	-	-	-	-	3,297
Average No. of Compartments to examine		-	-	-	-	-	-	4
Est. Average Area to Cut (Acres)	Not Reg.	3,297 3/	30,028 3/	-	-	-	-	33,325 3/
	Area Reg.	-	-	-	1,397	252	-	1,649
ESTIMATED AVERAGE YIELD								
TECHNICAL WORKING GROUP								
A. SAWTIMBER - (16.0" and over d.b.h.-includes 11.0" through 15.9" d.b.h. with Grade IV or better butt log)								
Scribner rule MMBM		-	-	-	1.345	1.195	-	2.540
International ¼" Rule MMBM		-	-	-	1.547	1.374	-	2.921
MM Cubic Feet		-	-	-	0.240	0.214	-	0.454
B. 4/ SAWTIMBER - (11.0" through 15.9" d.b.h. with no butt log better than Grade V)								
Scribner rule MMBM		-	-	-	0.367	-	-	0.367
International ¼" Rule MMBM		-	-	-	0.422	-	-	0.422
MM Cubic Feet		-	-	-	0.066	-	-	0.066
ADMINISTRATIVE WORKING GROUP (Also includes average annual sound mortality)								
C. SAWTIMBER - (16.0" and over d.b.h.-includes 11.0" through 15.9" d.b.h. with Grade IV or better butt log)								
Scribner rule MMBM		-	-	-	0.072	0.066	-	0.138
International ¼" Rule MMBM		-	-	-	0.083	0.075	-	0.158
MM Cubic Feet		-	-	-	0.012	0.012	-	0.024
D. 4/ SAWTIMBER - (11.0" through 15.9" d.b.h. with no butt log better than Grade V)								
Scribner rule MMBM		-	-	-	0.050	-	-	0.050
International ¼" Rule MMBM		-	-	-	0.058	-	-	0.058
MM Cubic Feet		-	-	-	0.09	-	-	0.09

Summary: Scribner rule MMBM - 3.095
International ¼" rule MMBM - 3.559
MM Cubic Feet - 0.553

OTHER PRODUCTS								
E. PULPWOOD (5.0" through 10.9" d.b.h.)								
MM Cubic Feet	0.231	-	-	-	-	-	0.231
M Cords	3.207	-	-	-	-	-	3.207
F. ROUNDWOOD IN SAWTIMBER TOPS								
MM Cubic Feet	-	-	-	0.059	0.018	-	0.077
M Cords	-	-	-	0.822	0.240	-	1.062

Summary: MM Cubic Feet - 0.308
M Cords - 4.269

UNREGULATED ADDITIONAL CUT OBJECTIVE							
5/ SAWTIMBER - (11.0" and over d.b.h.)							
Scribner rule MMBM	-	1.064	-	-	-	-	1.064
International ¼" rule MMBM	-	1.224	-	-	-	-	1.224
MM Cubic Feet	-	0.190	-	-	-	-	0.190
M Cords	-	2.639	-	-	-	-	2.639
NONCONVERTIBLE PRODUCTS							
CHRISTMAS TREES							
No. of trees	-	-	-	-	-	-	-

1/ Includes partial cutting.
2/ Includes release cutting.
3/ This area is not included in the area regulation.
4/ This allowable cut is available only if harvested from the stem sizes 11.0" through 15.9" d.b.h. This wood is on stems that are to be taken from the young sawtimber size stands as thinners and toppers. This will be done to improve the spacing of the trees in the stands. When the stands are thinned to optimum basal area requirements, increased growth on the residual stems will take place. The allowable cut volume established for this size and kind of material is not interchangeable with the other sawtimber size allowable cut.
5/ This unregulated material is available only if recovered from areas on the Forest which are not currently included within a going timber sale. This is material that will be harvested from trees that have recently died and are still sound or from trees that have been successfully attacked by a killing agent. It is planned that this material be recovered by small woods operators who have simple, mobile equipment that can move easily from one place to another. The logs recovered would probably be resold to the major sawmill operators in the area. This unregulated allowable cut is not interchangeable with the "live" tree allowable cuts. This allowable cut may be recovered from either of the two working groups; the Technical Working Group and the Administrative Working Group. This includes roadside zones. This material may be salvaged from the unregulated acreage annually.

Allowable Cut and Cutting Limitations

h. Available Annual Cut for this Period, F.Y. 1967 through F.Y. 1973

PINEDALE BLOCK

Table 73

Item		CUTTING METHOD						
		Inter-mediate	Salvage	Regeneration				Total
				Group, Patch, Strip, Stand	Shelterwood or Seed Tree		Selection	
					Preparatory & Seed 1/	Removal 2/		
Regulated area to examine (Acres)		-	-	-	-	-	-	7,626
Average No. of Compartments to examine (No. of Subdivided Comp)		-	-	-	-	-	-	10
Est. Average area to cut (Acres)	Not Reg.	7,626 3/	69,998 3/	-	-	-	-	77,624 3/
	Area Reg.	-	-	-	3,188	625	-	3,813
ESTIMATED AVERAGE YIELD								
TECHNICAL WORKING GROUP								
A. SAWTIMBER - (16.0" and over d.b.h.-includes 11.0" through 15.9 d.b.h. with Grade IV or better butt log)								
Scribner rule MMBM		-	-	-	1.052	0.635	-	1.687
International ¼" Rule MMBM		-	-	-	1.210	0.730	-	1.940
MM Cubic Feet		-	-	-	0.188	0.113	-	0.301
B. 4/ SAWTIMBER -(11.0" through 15.9" d.b.h. with no butt log better than Grade V)								
Scribner rule MMBM		-	-	-	0.237	-	-	0.237
International ¼" Rule MMBM		-	-	-	0.272	-	-	0.272
MM Cubic Feet		-	-	-	0.042	-	-	0.042
ADMINISTRATIVE WORKING GROUP (Also includes average annual sound mortality)								
C. SAWTIMBER - (16.0" and over d.b.h.-includes 11.0" through 15.9" d.b.h. with Grade IV or better butt log)								
Scribner rule MMBM		-	-	-	0.019	0.025	-	0.044
International ¼" Rule MMBM		-	-	-	0.022	0.029	-	0.051
MM Cubic Feet		-	-	-	0.003	0.005	-	0.008
D. 4/ SAWTIMBER - (11.0" through 15.9" d.b.h. with no butt log better than Grade V)								
Scribner rule MMBM		-	-	-	0.032	-	-	0.032
International ¼" Rule MMBM		-	-	-	0.037	-	-	0.037
MM Cubic Feet		-	-	-	0.006	-	-	0.006

Summary: Scribner rule MMBM - 2.000
International ¼" rule MMBM - 2.300
MM Cubic Feet - 0.357

OTHER PRODUCTS								
E. PULPWOOD (5.0" through 10.9" d.b.h.)								
MM Cubic Feet	0.645	-	-	-	-	-	0.645
M Cords	8.960	-	-	-	-	-	8.960
F. ROUNDWOOD IN SAWTIMBER TOPS								
MM Cubic Feet	-	-	-	0.038	0.011	-	0.049
M Cords	-	-	-	0.532	0.155	-	0.687

Summary: MM Cubic Feet - 0.694
M Cords - 9.647

UNREGULATED ADDITIONAL CUT OBJECTIVE							
5/ SAWTIMBER - (11.0" and over d.b.h.)							
Scribner rule MMBM	-	2.482	-	-	-	-	2.482
International ¼" rule MMBM	-	2.854	-	-	-	-	2.854
MM Cubic Feet	-	0.443	-	-	-	-	0.443
M Cords	-	6.153	-	-	-	-	6.153
NONCONVERTIBLE PRODUCTS							
CHRISTMAS TREES							
No. of Trees	100	-	-	-	-	-	100

1/ Includes partial cutting.
2/ Includes release cutting.
3/ This area is not included in the area regulation.
4/ This allowable cut is available only if harvested from the stem sizes 11.0" through 15.9" d.b.h. This wood is on stems that are to be taken from the young sawtimber size stands as thinners and toppers. This will be done to improve the spacing of the trees in the stands. When the stands are thinned to optimum basal area requirements, increased growth on the residual stems will take place. The allowable cut volume established for this size and kind of material is not interchangeable with the other sawtimber size allowable cut.
5/ This unregulated material is available only if recovered from areas on the Forest which are not currently included within a going timber sale. This is material that will be harvested from trees that have recently died and are still sound or from trees that have been successfully attacked by a killing agent. It is planned that this material be recovered by small woods operators who have simple, mobile equipment that can move easily from one place to another. The logs recovered would probably be resold to the major sawmill operators in the area. This unregulated allowable cut is not interchangeable with the "live" tree allowable cuts. This allowable cut may be recovered from either of the two working groups; the Technical Working Group and the Administrative Working Group. This includes roadside zones. This material may be salvaged from the unregulated acreage annually.

D. Timber Data

1. Summary of Volumes by Tree Class on All Operable Commercial Forest Land

Table 74

Tree Class		Seedlings	Saplings	Small Poles	Large Poles	Sawtimber Small	Sawtimber Medium	Sawtimber Large	Sawtimber Oversize	Total Cubic Feet	Total Scribner Rule Board Feet
		Net Cubic Feet				Net Scribner Rule Board Feet				Net Volumes	
ALL OPERABLE ACREAGE											
Live Remove											
Poor Risk	(PR)		44,490	8,286,649	748,439	10,374,862	9,847,245	14,661,782	20,336,135	9,079,578	55,220,024
Poor Form	(PF)	NO	156,190	826,182	1,137,659	27,137,555	22,317,815	13,911,409	24,948,536	2,120,031	88,315,315
	(PM)		-0-	-0-	109,543	-0-	-0-	-0-	-0-	109,543	-0-
Poor Other	(PO)	SEEDLINGS	504,620	2,094,178	1,392,584	21,499,176	26,165,899	23,145,624	32,544,612	3,991,382	103,355,311
Damage Fire	(DF)		-0-	-0-	-0-	1,030,229	-0-	1,741,264	-0-	-0-	2,771,493
Mature	(MA)	TO	-0-	-0-	-0-	3,359,918	30,430,040	68,677,278	388,367,874	-0-	490,835,110
Mistletoe	(MM)		93,060	7,170,848	2,038,368	55,297,320	45,510,068	56,024,584	34,489,707	9,302,276	191,321,679
Damage Insects	(DI)	BE	-0-	147,000	-0-	-0-	-0-	-0-	-0-	147,000	-0-
Damage Lightning	(DL)		-0-	-0-	-0-	945,647	3,481,222	2,036,778	15,305,304	-0-	21,768,951
Damage Animals	(DA)	REMOVED	-0-	4,104,218	783,493	11,354,284	4,770,669	-0-	4,003,845	4,887,711	20,128,798
Damage Rodents	(DR)		-0-	-0-	-0-	339,985	2,300,314	4,468,892	6,458,881	-0-	13,568,072
Damage Mechanical	(DM)		27,394	4,615,957	2,353,981	4,308,246	4,937,342	3,231,714	-0-	6,997,332	12,477,302
Thinner	(TH)		3,127,378	15,694,098	4,543,071	15,198,868	24,488,917	11,195,331	3,091,443	23,364,547	53,974,559
Topper	(TO)		-0-	-0-	-0-	-0-	-0-	3,161,667	-0-	-0-	3,161,667
	(OI)		-0-	-0-	-0-	536,164	1,179,028	1,783,696	-0-	-0-	3,498,888
Total Live Remove			3,953,132	42,939,130	13,107,138	151,382,254	175,428,559	204,040,019	529,546,337	59,999,400	1,060,397,169
Live Retain											
	(OI)	-0-	-0-	-0-	174,278	-0-	-0-	-0-	-0-	174,278	-0-
Grower	(GR)	-0-	1,480,322	14,659,302	12,006,740	57,870,941	66,978,882	20,967,781	3,585,231	28,146,364	149,402,835
Growing Stock	(GS)	146,310	710,489	6,447,035	11,247,138	81,033,223	97,325,910	53,132,645	47,203,396	18,550,972	278,695,174
Poor Other	(PO)	-0-	20,516	615,677	1,871,886	3,989,385	11,180,181	8,384,870	1,606,020	2,508,079	25,160,456
Mature	(MA)	-0-	-0-	-0-	-0-	810,422	20,651,072	48,728,624	79,529,958	-0-	149,720,076
Crop Tree	(CT)	-0-	50,895	927,462	487,978	-0-	-0-	-0-	-0-	1,466,335	-0-
Thinner	(TH)	-0-	10,905	372,803	283,536	501,154	-0-	-0-	-0-	667,244	501,154
Poor Form	(PF)	-0-	31,528	714,097	5,617,366	13,788,790	13,758,125	13,706,609	10,095,123	6,362,991	51,348,647
Mistletoe	(MM)	-0-	-0-	643,059	966,863	8,276,189	2,574,767	5,131,825	5,072,245	1,609,923	21,055,026
Seed Tree	(ST)	-0-	-0-	-0-	-0-	-0-	-0-	1,429,079	-0-	-0-	1,429,079
Pruned Tree	(PT)	-0-	33,768	216,607	-0-	-0-	-0-	-0-	-0-	250,375	-0-
Damage Fire	(DF)	-0-	-0-	-0-	-0-	1,133,564	-0-	-0-	-0-	-0-	1,133,564
Damage Rodents	(DR)	-0-	-0-	-0-	-0-	309,828	-0-	-0-	-0-	-0-	309,828
Damage Animals	(DA)	-0-	10,707	666,794	452,093	352,192	4,454,484	-0-	-0-	1,129,594	4,806,676
Damage Mechanical	(DM)	-0-	-0-	-0-	-0-	1,191,152	1,177,512	-0-	-0-	-0-	2,368,664
Damage Insects	(DI)	-0-	-0-	-0-	-0-	1,212,368	999,850	4,055,993	1,587,077	-0-	7,855,288
Total Live Retain		146,310	2,349,130	25,262,836	33,107,878	170,469,208	219,100,783	155,537,426	148,679,050	60,866,154	693,786,467
Total Working Circle		146,310	6,302,262	68,201,966	46,215,016	321,851,462	394,529,342	359,577,445	678,225,387	120,865,554	1,754,183,636

2. Acreage Tabulation By Types, Districts, & Counties

a. All Areas

Sitgreaves Working Circle

Table 75

DISTRICT AND COUNTY	Grass	Woodland	Water	Subtotal Nonforest	Stocked Operable Site I	Site II	Site III	Subtotal	NS	Aspen	Subtotal Operable	Inoperable	Subtotal Commercial	Subtotal National Forest	Private Land Aztec	Other	Subtotal	TOTAL WITHIN FOREST BOUNDARY
CHEVELON DISTRICT																		
Coconino County	5,750	47,200	184	53,134	5,733	85,296	16,156	107,185	10,325	335	117,845	13,394	131,239	184,373	24,990	2,546	27,536	211,909
Navajo County	-	778	-	778	-	-	-	-	-	-	-	-	-	778	-	-	-	778
District Total	5,750	47,978	184	53,912	5,733	85,296	16,156	107,185	10,325	335	117,845	13,394	131,239	185,151	24,990	2,546	27,536	212,687
HEBER DISTRICT																		
Coconino County	501	9,801	-	10,302	1,787	46,681	9,123	57,591	858	286	58,735	2,504	61,239	71,541	3,979	1,336	5,315	76,856
Navajo County	7,506	89,511	-	97,017	543	62,730	22,024	85,297	1,854	148	87,299	1,113	88,412	185,429	14,389	3,715	18,104	203,533
District Total	8,007	99,312	-	107,319	2,330	109,411	31,147	142,888	2,712	434	146,034	3,617	149,651	256,970	18,368	5,051	23,419	280,389
PINEDALE DISTRICT																		
Navajo County	15,592	112,605	-	128,197	316	50,123	23,372	73,811	2,453	-	76,264	-	76,264	204,461	1,794	24,768	26,562	231,023
District Total	15,592	112,605		128,197	316	50,123	23,372	73,811	2,453	-	76,264	-	76,264	204,461	1,794	24,768	26,562	231,023
LAKESIDE DISTRICT																		
Navajo County	10,032	42,685	1,089	53,806	61	21,183	10,433	31,677	1,302	-	32,979	-	32,979	86,785	-	24,778	24,778	111,563
Apache County	3,400	8,342	-	11,742	657	25,035	6,266	31,958	1,042	589	33,589	-	33,589	45,331	-	3,555	3,555	48,886
District Total	13,432	51,027	1,089	65,548	718	46,218	16,699	63,635	2,344	589	66,568	-	66,568	132,116		28,333	28,333	160,449
FOREST TOTAL	42,781	310,922	1,273	354,976	9,097	291,048	87,374	387,519	17,834	1,358	406,711	17,011	423,722	778,698	45,152	60,698	105,850	884,548

Acreage Tabulation By Types, Districts, & Counties

b. Technical Working Group

Sitgreaves Working Circle

Table 76

DISTRICT & COUNTY	Site I - High PI-C	PI-V	Sub-Total	Site II - Medium PI-C	P2=C	PI-V	PI=V	MCI-C	MCI=C	MCI-V	Sub-Total	NS	Sub-Total	Site III - Low PI-C	PI-V	Sub-Total	NS	Sub-Total	All Sites Stocked Operable	All Sites NS	Total Operable	Site II - Inoperable PX	MCX	Total Inoperable	Total Technical Working Group
			TECHNICAL WORKING GROUP																						
Chevelon District																									
Coconino County	3,371	1,022	4,393	36,443	9,426	17,478	3,274	3,075	699	4,959	75,324	9,831	85,155	11,035	3,893	14,928	125	15,053	94,645	9,956	104,601	4,487	1,413	5,900	110,501
Navajo County	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
District Total	3,371	1,022	4,393	36,443	9,426	17,478	3,274	3,075	699	4,959	75,324	9,831	85,155	11,035	3,893	14,928	125	15,053	94,645	9,956	104,601	4,487	1,413	5,900	110,501
Heber District	1,471	200	1,671	23,855	6,879	937	344	429	172	259	32,875	315	33,190	8,124	325	8,449	400	8,849							
Coconino County	368	50	418	34,997	13,619	4,050	339	859	169	592	54,625	269	54,894	20,876	468	21,344	1,400	22,744	42,995	715	43,710	984	89	1,073	44,783
Navajo County	1,839	250	2,089	58,852	20,498	4,987	683	1,288	341	851	87,500	584	88,084	29,000	793	29,793	1,800	31,593	76,387	1,669	78,056	1,113	-	1,113	79,169
District Total																			119,382	2,384	121,766	2,097	89	2,186	123,952
Pinedale District																									
Navajo County	306	-	306	17,545	28,981	1,154	-	-	-	-	47,680	449	48,129	22,486	300	22,786	1,800	24,586	70,772	2,249	73,021	-	-	-	73,021
District Total	306	-	306	17,545	28,981	1,154	-	-	-	-	47,680	449	48,129	22,486	300	22,786	1,800	24,586	70,772	2,249	73,021	-	-	-	73,021
Lakeside District																									
Navajo County	61	-	61	10,293	6,851	-	-	-	-	-	17,144	668	17,812	7,914	-	7,914	200	8,114	25,119	868	25,987	-	-	-	25,987
Apache County	552	20	572	14,913	8,046	125	-	870	-	-	23,954	842	24,796	6,160	28	6,188	200	6,388	30,714	1,042	31,756	-	-	-	31,756
District Total	613	20	633	25,206	14,897	125	-	870	-	-	41,098	1,510	42,608	14,074	28	14,102	400	14,502	55,833	1,910	57,743	-	-	-	57,743
FOREST TOTAL	6,129	1,292	7,421	138,046	73,802	23,744	3,957	5,233	1,010	5,810	251,602	12,374	263,976	76,595	5,014	81,609	4,125	85,734	340,632	16,499	357,131	6,584	1,502	8,086	365,217

Acreage Tabulation By Types, Districts, & Counties

c. Administrative Working Group

Sitgreaves Working Circle

Table 77

District & County	Site I - High PI-C	PI-V	Sub-Total	Aspen	Sub-Total	Site II - Medium PI-C	P2=C	PI-V	MCI-C	Sub-Total	NS	Sub-Total	Site III - Low PI-C	NS	Sub-Total	All Sites Stocked Operable	Aspen	All Sites NS	Total Operable	Site II - Inoperable PX	MCX	Total Inoperable	Total Administrative Working Group
			ADMINISTRATIVE WORKING GROUP																				
Chevelon District																							
Coconino County	250	1,090	1,340	335	1,675	4,700	3,623	192	1,457	9,972	285	10,257	1,228	84	1,312	12,540	335	369	13,244	5,040	2,454	7,494	20,738
Navajo County	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
District Total	250	1,090	1,340	335	1,675	4,700	3,623	192	1,457	9,972	285	10,257	1,228	84	1,312	12,540	335	369	13,244	5,040	2,454	7,494	20,738
Heber District																							
Coconino County	116	-	116	286	402	3,200	6,130	1,070	3,406	13,806	93	13,899	674	50	724	14,596	286	143	15,025	805	626	1,431	16,456
Navajo County	-	125	125	148	273	1,900	5,847	61	297	8,105	135	8,240	680	50	730	8,910	148	185	9,243	-	-	-	9,243
District Total	116	125	241	434	675	5,100	11,977	1,131	3,703	21,911	228	22,139	1,354	100	1,454	23,506	434	328	24,268	805	626	1,431	25,699
Pinedale District																							
Navajo County	10	-	10	-	10	700	1,743	-	-	2,443	134	2,577	586	70	656	3,039	-	204	3,243	-	-	-	3,243
District Total	10	-	10	-	10	700	1,743	-	-	2,443	134	2,577	586	70	656	3,039	-	204	3,243	-	-	-	3,243
Lakeside District																							
Navajo County	-	-	-	-	-	2,400	1,639	-	-	4,039	354	4,393	2,519	80	2,599	6,558	-	434	6,992	-	-	-	6,992
Apache County	85	-	85	589	674	600	96	-	385	1,081	-	1,081	78	-	78	1,244	589	-	1,833	-	-	-	1,833
District Total	85	-	85	589	674	3,000	1,735	-	385	5,120	354	5,474	2,597	80	2,677	7,802	589	434	8,825	-	-	-	8,825
FOREST TOTAL	461	1,215	1,676	1,358	3,034	13,500	19,078	1,323	5,545	39,446	1,001	40,447	5,765	334	6,099	46,887	1,358	1,335	49,580	5,845	3,080	8,925	58,505

3. Net Volumes by Size Grouping, Working Group, and Condition

a. Chevelon District, Coconino County Commercial Forest Land
Volumes by Size Grouping, Working Group, and Condition,
National Forest Only, Softwood Species Only

Table 78

Working Group, Size Grouping, and Condition	Sawtimber 11.0" and over D.B.H. Scribner Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. International 1/4" Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. Cubic Feet	Poletimber 5.0 to 10.0" D.B.H. Cu Ft.	Seedlings & Saplings 4 9" D.B.H. & under - Cu. Ft.	Total Cubic Feet
	Net Volumes					
Operable - 107,185 Acres (Stocked only)						
Technical Working Group - 94,645 Acres						
Seedlings and Saplings	-	-	-	-	1,194,435	1,194,435
Small Poles	-	-	-	14,342,924	-	14,342,924
Large Poles	-	-	-	9,516,974	-	9,516,974
Small Sawtimber	88,474,532	101,745,394	26,792,812	-	-	26,792,812
Medium Sawtimber	114,467,221	131,637,230	28,793,255	-	-	28,793,255
Large Sawtimber	124,413,255	143,074,927	27,625,474	-	-	27,625,474
Oversize Sawtimber	232,241,537	267,077,884	43,986,034	-	-	43,986,034
Sub-Total, Technical	559,596,545	643,535,435	127,197,575	23,859,898	1,194,435	152,251,908
Administrative Working Group - 12,540 Acres						
Seedlings and Saplings	-	-	-	-	209,975	209,975
Small Poles	-	-	-	2,255,530	-	2,255,530
Large Poles	-	-	-	1,683,452	-	1,683,452
Small Sawtimber	8,329,176	9,578,514	2,766,257	-	-	2,766,257
Medium Sawtimber	11,127,348	12,796,447	2,732,353	-	-	2,732,353
Large Sawtimber	10,299,060	11,847,876	2,307,628	-	-	2,307,628
Oversize Sawtimber	36,911,970	42,448,752	7,238,254	-	-	7,238,254
Sub-Total, Administrative	66,667,554	76,671,589	15,044,492	3,938,982	209,975	19,193,449
Sub-Total, Operable	626,264,099	720,207,024	142,242,067	27,798,880	1,404,410	171,445,357
Inoperable - 13,394 Acres						
Technical Working Group - 5,900 Acres						
Seedlings and Saplings	-	-	-	-	9,668	9,668
Small Poles	-	-	-	455,665	-	455,665
Large Poles	-	-	-	274,956	-	274,956
Small Sawtimber	3,697,482	4,252,103	1,061,481	-	-	1,061,481
Medium Sawtimber	3,412,691	3,924,593	872,458	-	-	872,458
Large Sawtimber	4,522,533	5,200,908	999,767	-	-	999,767
Oversize Sawtimber	10,125,251	11,644,058	2,093,283	-	-	2,093,283
Sub-Total, Technical	21,757,957	25,021,662	5,026,989	730,621	9,668	5,767,278
Administrative Working Group - 7,494 Acres						
Seedlings and Saplings	-	-	-	-	12,096	12,096
Small Poles	-	-	-	558,449	-	558,449
Large Poles	-	-	-	339,165	-	339,165
Small Sawtimber	4,722,873	5,431,301	1,351,540	-	-	1,351,540
Medium Sawtimber	4,282,987	4,925,432	1,098,535	-	-	1,098,535
Large Sawtimber	5,698,141	6,552,856	1,260,861	-	-	1,260,861
Oversize Sawtimber	13,199,476	15,179,424	2,723,554	-	-	2,723,554
Sub-Total, Admin.	27,903,477	32,089,013	6,434,490	897,614	12,096	7,344,200
Sub-Total, Inoperable	49,661,434	57,110,675	11,461,479	1,628,235	21,764	13,111,478
Block and County Summary - 120,579 Acres 1/						
Seedlings and Saplings	-	-	-	-	1,426,174	1,426,174
Small Poles	-	-	-	17,612,568	-	17,612,568
Large Poles	-	-	-	11,814,547	-	11,814,547
Small Sawtimber	105,224,063	121,007,312	31,972,090	-	-	31,972,090
Medium Sawtimber	133,290,247	153,283,702	33,496,601	-	-	33,496,601
Large Sawtimber	144,932,989	166,676,567	32,193,730	-	-	32,193,730
Oversize Sawtimber	292,478,234	336,350,118	56,041,125	-	-	56,041,125
TOTAL, County-Block	675,925,533	777,317,699	153,703,546	29,427,115	1,426,174	184,556,835

1/ Does not include 10,325 acres operable nonstocked and 335 acres aspen.

b. Heber District, Coconino County Commercial Forest Land
Volumes by Size Grouping, Working Group, and Condition,
National Forest Only, Softwood Species Only

Table 79

Working Group, Size Grouping, and Condition	Sawtimber 11 0" and over D.B.H. Scribner Rule Bd. Ft.	Sawtimber 11 0" and over D.B.H. International 1/4" Rule Bd. Ft.	Sawtimber 11 0" and over D.B.H. Cubic Feet	Poletimber 5.0 to 10.9" D.B.H. Cu. Ft.	Seedlings & Saplings 4.9" D.B.H. & under Cu. Ft.	Total Cubic Feet
	Net Volumes					
Operable - 57,591 Acres (stocked only)						
Technical Working Group - 42,995 Acres						
Seedlings and Saplings	-	-	-	-	678,306	678,306
Small Poles	-	-	-	6,676,165	-	6,676,165
Large Poles	-	-	-	4,320,279	-	4,320,279
Small Sawtimber	34,755,257	39,968,357	10,464,908	-	-	10,464,908
Medium Sawtimber	47,067,517	54,127,601	11,803,741	-	-	11,803,741
Large Sawtimber	44,766,231	51,480,971	9,988,995	-	-	9,988,995
Oversize Sawtimber	75,778,456	87,145,206	12,688,439	-	-	12,688,439
Sub-Total, Technical	202,367,461	232,722,135	44,946,083	10,996,444	678,306	56,620,833
Administrative Working Group - 14,596 Acres						
Seedlings and Saplings	-	-	-	-	252,105	252,105
Small Poles	-	-	-	3,156,267	-	3,156,267
Large Poles	-	-	-	2,720,345	-	2,720,345
Small Sawtimber	10,063,682	11,573,206	3,652,219	-	-	3,652,219
Medium Sawtimber	12,870,359	14,800,922	3,100,312	-	-	3,100,312
Large Sawtimber	12,204,922	14,035,622	2,744,826	-	-	2,744,826
Oversize Sawtimber	38,990,916	44,839,546	8,297,497	-	-	8,297,497
Sub-Total, Administrative	74, 129,879	85,249,296	17,794,854	5,876,612	252,105	23,923,571
Sub-Total, Operable	276,497,340	317,971,431	62,740,937	16,873,056	930,411	80,544,404
Inoperable - 2,504 Acres						
Technical Working Group - 1,073 Acres						
Seedlings and Saplings	-	-	-	-	1,806	1,806
Small Poles	-	-	-	88,115	-	88,115
Large Poles	-	-	-	52,614	-	52,614
Small Sawtimber	666,342	766,293	192,391	-	-	192,391
Medium Sawtimber	634,374	729,531	161,267	-	-	161,267
Large Sawtimber	835,013	960,264	184,283	-	-	184,283
Oversize Sawtimber	1,757,007	2,020,562	364,587	-	-	364,587
Sub-Total, Technical	3,892,736	4,476,650	902,528	140,729	1,806	1,045,063
Administrative Working Group - 1,431 Acres						
Seedlings and Saplings	-	-	-	-	2,266	2,266
Small Poles	-	-	-	101,803	-	101,803
Large Poles	-	-	-	62,369	-	62,369
Small Sawtimber	908,220	1,043,952	258,883	-	-	258,883
Medium Sawtimber	805,591	926,429	207,488	-	-	207,488
Large Sawtimber	1,077,144	1,238,715	238,636	-	-	238,636
Oversize Sawtimber	2,601,390	2.991,605	535,538	-	-	535,538
Sub-Total, Administrative	5,392,345	6,200,701	1,240,545	164,172	2,266	1,406,983
Sub-Total, Inoperable	9,285,081	10,677,351	2,143,073	304,901	4,072	2,452,046
	1/					
Block and County Summary - 60,095 Acres						
Seedlings and Saplings	-	-	-	-	934,483	934,483
Small Poles	-	-	-	10,022,350	-	10,022,350
Large Poles	-	-	-	7,155,607	-	7,155,607
Small Sawtimber	46,393,501	53,351,808	14,568,401	-	-	14,568,401
Medium Sawtimber	61,377,841	70,584,483	15,272,808	-	-	15,272,808
Large Sawtimber	58,883,310	67,715,572	13,156,740	-	-	13,156,740
Oversize Sawtimber	119,127,769	136,996,919	21,886,061	-	-	21,886,061
TOTAL, County-Block	285,782,421	328,648,782	64,884,010	17,177,957	934,483	82,996,450

1/ Does not include 858 Acres operable nonstocked and 286 acres aspen.

c. Heber District, Navajo County Commercial Forest Land
Volumes by Size Grouping, Working Group, and Condition,
National Forest Only, Softwood Species Only

Table 80

Working Group Size Grouping, and Condition	Sawtimber 11.0" and over D.B.H. Scribner Rule Bd. Ft	Sawtimber 11.0" and over D.B.H. International 1/4" Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. Cubic Feet	Poletimber 5.0 to 10.9" D. B. H Cu. Ft.	Seedlings & Saplings 4.9" D.B.H.& under-Cu. Ft.	Total Cubic Feet
	Net Volumes					
Operable - 85,297 Acres (Stocked Only)						
Technical Working Group - 76,387 Acres						
Seedlings and Saplings	-	-	-	-	1,232,532	1,232,532
Small Poles	-	-	-	12,202,733	-	12,202,733
Large Poles	-	-	-	8,129,115	-	8,129,115
Small Sawtimber	64,072,270	73,682,850	19,427,042	-	-	19,427,042
Medium Sawtimber	79,030,896	90,885,490	19,990,063	-	-	19,990,063
Large Sawtimber	70,024,322	80,527,668	15,733,401	-	-	15,733,401
Oversize Sawtimber	118,256,997	135,995,546	20,129,656	-	-	20,129,656
Sub-Total, Technical	331,384,485	381,091,554	75,280,162	20,331,848	1,232,532	96,844,542
Administrative Working Group - 8,910 Acres						
Seedlings and Saplings	-	-	-	-	211,963	211,963
Small Poles	-	-	-	2,496,456	-	2,496,456
Large Poles	-	-	-	1,636,206	-	1,636,206
Small Sawtimber	6,586,567	7,574,549	2,081,276	-	-	2,081,276
Medium Sawtimber	6,296,921	7,241,473	1,508,894	-	-	1,508,894
Large Sawtimber	3,387,488	3,895,595	761,445	-	-	761,445
Oversize Sawtimber	12,009,384	13,810,785	2,214,539	-	-	2,214,539
Sub-Total, Administrative	28,280,360	32,522,402	6,566,154	4,132,662	211,963	10,910,779
Sub-Total, Operable	359,664,845	413,613,956	81,846,316	24,464,510	1,444,495	107,755,321
Inoperable - 1,113 Acres						
Technical Working Group						
Seedlings and Saplings	-	-	-	-	1,898	1,898
Small Poles	-	-	-	94,147	-	94,147
Large Poles	-	-	-	55,927	-	55,927
Small Sawtimber	686,691	789,695	198,878	-	-	198,878
Medium Sawtimber	664,535	764,216	168,442	-	-	168,442
Large Sawtimber	871,651	1,002,398	192,202	-	-	192,202
Oversize Sawtimber	1,772,931	2,038,873	368,670	-	-	368,670
Sub-Total, Technical	3,995,808	4,595,182	928,192	150,074	1,898	1,080,164
Administrative Working Group - 0 Acres						
Sub-Total, Administrative	0	0	0	0	0	0
Sub-Total, Inoperable	3,995,808	4,595,182	928,192	150,074	1,898	1,080,164
Block and County Summary - 86,410 Acres	1/					
Seedlings and Saplings	-	-	-	-	1,446,393	1,446,393
Small Poles	-	-	-	14,793,336	-	14,793,336
Large Poles	-	-	-	9,821,248	-	9,821,248
Small Sawtimber	71,345,528	82,047,094	21,707,196	-	-	21,707,196
Medium Sawtimber	85,992,352	98,891,179	21,667,399	-	-	21,667,399
Large Sawtimber	74,283,461	85,425,661	16,687,048	-	-	16,687,048
Oversize Sawtimber	132,039,312	151,845,204	22,712,865	-	-	22,712,865
TOTAL, County-Block	363,660,653	418,209,138	82,774,508	24,614,584	1,446,393	108,835,485

1/ Does not include 1,854 operable nonstocked and 148 acres Aspen.

d. Lakeside District, Apache County Commercial Forest Land
Volumes by Size Grouping, Working Group, and Condition,
National Forest Only, Softwood Species Only

Table 81

Working Group, Size Grouping, and Condition	Sawtimber 11.0" and over D.B.H. Scribner Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. International ¼" Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. Cubic Feet	Poletimber 5.0-10.9" D.B.H. Cu. Ft.	Seedlings & Saplings 4.9" D.B.H. & Under-Cu. Ft.	Total Cu. Ft
	Net Volumes					
Operable - 31,958 Acres(stocked only) Technical Working Group - 30,714 Acres						
Seedlings & Saplings	-	-	-	-	530,675	530,675
Small Poles	-	-	-	5,418,956	-	5,418,956
Large Poles	-	-	-	3,663,689	-	3,663,689
Small Sawtimber	24,010,008	27,611,399	7,388,691	-	-	7,388,691
Medium Sawtimber	30,550,151	35,132,660	7,627,338	-	-	7,627,338
Large Sawtimber	26,350,733	30,303,217	5,907,111	-	-	5,907,111
Oversize Sawtimber	48,728,113	56,037,311	8,289,952	-	-	8,289,952
Sub-Total,Technical	129,639,005	149,084,587	29,213,092	9,082,645	530,675	38,826,412
Administrative Working Group - 1,244 Acres						
Seedlings & Saplings	-	-	-	-	13,721	13,721
Small Poles	-	-	-	146,853	-	146,853
Large Poles	-	-	-	173,525	-	173,525
Small Sawtimber	776,977	893,516	297,308	-	-	297,308
Medium Sawtimber	1,453,623	1,671,666	354,180	-	-	354,180
Large Sawtimber	1,761,491	2,025,709	393,992	-	-	393,992
Oversize Sawtimber	4,412,848	5,074,773	916,998	-	-	916,998
Sub-Total,Administrative	8,404,939	9,665,664	1,962,478	320,378	13,721	2,296,577
Sub-Total, Operable	138,043,944	158,750,251	31,175,570	9,403,023	544,396	41,122,989
Inoperable - 0 Acres Technical Working Group - 0 Acres						
Sub-Total,Technical	-	-	-	-	-	-
Administrative Working Group - 0 Acres						
Sub-Total, Administrative	-	-	-	-	-	-
Sub-Total Inoperable	-	-	-	-	-	-
Block & County Summary - 31,958[1/] Acres						
Seedlings & Saplings	-	-	-	-	544,396	544,396
Small Poles	-	-	-	5,565,809	-	5,565,809
Large Poles	-	-	-	3,837,214	-	3,837,214
Small Sawtimber	24,786,985	28,504,915	7,685,999	-	-	7,685,999
Medium Sawtimber	32,003,774	36,804,326	7,981,518	-	-	7,981,518
Large Sawtimber	28,112,224	32,328,926	6,301,103	-	-	6,301,103
Oversize Sawtimber	53,140,961	61,112,084	9,206,950	-	-	9,206,950
TOTAL, County-Block	138,043,944	158,750,251	31,175,570	9,403,023	544,396	41,122,989

1/ Does not include 1,042 acres Nonstocked and 589 Acres Aspen.

e. Lakeside District, Navajo County Commercial Forest Land

Volumes by Size Grouping, Working Group, and Condition,

National Forest Only, Softwood Species Only

Table 82

Working Group, Size Grouping, and Condition	Sawtimber 11.0" and over D.B.H. Scribner Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. International ¼" Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. Cubic Feet	Poletimber 5.0-10.9" D.B.H. Cu. Ft.	Seedlings & Saplings 4.9" D.B.H. & Under-Cu. Ft.	Total Cu. Ft.
	Net Volumes					
Operable-31,677 Acres(Stocked only)						
Technical Working Group - 25,119 Acres						
Seedlings & Saplings	-	-	-	-	463,175	463,175
Small Poles	-	-	-	4,490,772	-	4,490,772
Large Poles	-	-	-	2,949,999	-	2,949,999
Small Sawtimber	20,284,332	23,326,916	6,161,944	-	-	6,161,944
Medium Sawtimber	23,753,985	27,317,082	5,982,678	-	-	5,982,678
Large Sawtimber	18,619,756	21,412,633	4,208,857	-	-	4,208,857
Oversize Sawtimber	30,044,006	34,550,599	4,847,977	-	-	4,847,977
Sub-Total,Technical	92,702,079	106,607,230	21,201,456	7,440,771	463,175	29,105,402
Administrative Working Group - 6,558 Acres						
Seedlings & Saplings	-	-	-	-	120,808	120,808
Small Poles	-	-	-	1,123,343	-	1,123,343
Large Poles	-	-	-	748,900	-	748,900
Small Sawtimber	5,333,385	6,133,378	1,625,416	-	-	1,625,416
Medium Sawtimber	6,148,781	7,071,100	1,554,868	-	-	1,554,868
Large Sawtimber	4,803,167	5,523,622	1,090,574	-	-	1,090,574
Oversize Sawtimber	7,209,910	8,291,395	1,175,468	-	-	1,175,468
Sub-Total,Administrative	23,495,243	27,019,495	5,446,326	1,872,243	120,808	7,439,377
Sub-Total, Operable	116,197,322	133,626,725	26,647,782	9,313,014	583,983	36,544,779
Inoperable - 0 Acres						
Technical Working Group - 0 Acres						
Sub-Total,Technical	-	-	-	-	-	-
Administrative Working Group - 0 Acres						
Sub-Total, Administrative	-	-	-	-	-	-
Sub-Total Inoperable	-	-	-	-	-	-
Block & County Summary - 31,677[1/] Acres						
Seedlings & Saplings	-	-	-	-	583,983	583,983
Small Poles	-	-	-	5,614,115	-	5,614,115
Large Poles	-	-	-	3,698,899	-	3,698,899
Small Sawtimber	25,617,717	29,460,294	7,787,360	-	-	7,787,360
Medium Sawtimber	29,902,766	34,388,182	7,537,546	-	-	7,537,546
Large Sawtimber	23,422,923	26,936,255	5,299,431	-	-	5,299,431
Oversize Sawtimber	37,253,916	42,841,994	6,023,445	-	-	6,023,445
TOTAL, County-Block	116,197,322	133,626,725	26,647,782	9,313,014	583,983	36,544,779

1/ Does not include 1,302 acres operable nonstocked.

f. Pinedale District, Navajo County Commercial Forest Land

Volumes by Size Grouping, Working Group, and Condition,

National Forest Only, Softwood Species Only

Table 83

Working Group, Size Grouping, and Condition	Sawtimber 11.0" and over D.B.H. Scribner Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. International ¼" Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. Cubic Feet	Poletimber 5.0-10.9" D.B.H. Cu. Ft.	Seedlings & Saplings 4.9" D.B.H. & Under-Cu. Ft.	Total Cu. Ft.
	Net Volumes					
Operable - 73,811 Acres						
Technical Working Group - 70,772 Acres						
Seedlings & Saplings	-	-	-	-	1,470,308	1,470,308
Small Poles	-	-	-	15,108,103	-	15,108,103
Large Poles	-	-	-	9,870,388	-	9,870,388
Small Sawtimber	56,808,574	65,329,794	17,322,927	-	-	17,322,927
Medium Sawtimber	59,467,758	68,387,998	14,667,141	-	-	14,667,141
Large Sawtimber	41,626,470	47,870,293	9,346,101	-	-	9,346,101
Oversize Sawtimber	70,694,071	81,297,587	12,002,951	-	-	12,002,951
Sub-Total, Technical	228,596,873	262,885,672	53,339,120	24,978,491	1,470,308	79,787,919
Administrative Working Group - 3,039 Acres						
Seedlings & Saplings	-	-	-	-	70,569	70,569
Small Poles	-	-	-	783,864	-	783,864
Large Poles	-	-	-	502,083	-	502,083
Small Sawtimber	2,356,702	2,710,205	725,864	-	-	725,864
Medium Sawtimber	2,294,782	2,639,004	559,579	-	-	559,579
Large Sawtimber	1,320,550	1,518,626	298,621	-	-	298,621
Oversize Sawtimber	2,947,179	3,389,254	497,387	-	-	497,387
Sub-Total, Administrative	8,919,213	10,257,089	2,081,451	1,285,947	70,569	3,437,967
Sub-Total, Operable	237,516,086	273,142,761	55,420,571	26,264,438	1,540,877	83,225,886
Inoperable - 0 Acres						
Technical Working Group - 0 Acres						
Sub-Total, Technical	-	-	-	-	-	-
Administrative Working Group - 0 Acres						
Sub-Total, Administrative	-	-	-	-	-	-
Sub-Total Inoperable	-	-	-	-	-	-
Block & County Summary - 73,811 Acres [1]						
Seedlings & Saplings	-	-	-	-	1,540,877	1,540,877
Small Poles	-	-	-	15,891,967	-	15,891,967
Large Poles	-	-	-	10,372,471	-	10,372,471
Small Sawtimber	59,165,276	68,039,999	18,048,791	-	-	18,048,791
Medium Sawtimber	61,762,540	71,027,002	15,226,720	-	-	15,226,720
Large Sawtimber	42,947,020	49,388,919	9,644,722	-	-	9,644,722
Oversize Sawtimber	73,641,250	84,686,841	12,500,338	-	-	12,500,338
TOTAL, County-Block	237,516,086	273,142,761	55,420,571	26,264,438	1,540,877	83,225,886

1/ Does not include 2,453 acres operable nonstocked.

4. Inoperable Commercial Forest Land Volumes by Size Groupings and Block (District), National Forest Only

Table 84

Block and Size Grouping	Sawtimber 11.0" and over D.B.H. Scribner Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. International 1/4" Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. Cubic Feet	Poletimber 5.0 to 10.9" D.B.H and Cu. Ft.	Seedlings & Saplings 4.9" DBH & under -Cu. Ft.	Total Cubic Feet
	Net Volumes					
Chevelon Block - 13,394 Acres						
Seedlings and Saplings	--	-	-	-	21,764	21,764
Small Poles	-	-	-	1,014,114	-	1,014,114
Large Poles	-	-	-	614,121	-	614,121
Small Sawtimber	8,420,355	9,683,404	2,413,021	-	-	2,413,021
Medium Sawtimber	7,695,678	8,850,025	1,970,993	-	-	1,970,993
Large Sawtimber	10,220,674	11,753,764	2,260,628	-	-	2,260,628
Oversize Sawtimber	23,324,727	26,823,482	4,816,837	-	-	4,816,837
Sub-Total, Chevelon	49,661,434	57,110,675	11,461,479	1,628,235	21,764	13,111,478
Heber Block - 3,617 Acres						
Seedlings and Saplings	-	-	-	-	5,970	5,970
Small Poles	-	-	-	284,065	-	284,065
Large Poles	-	-	-	170,910	-	170,910
Small Sawtimber	2,261,253	2,599,940	650,152	-	-	650,152
Medium Sawtimber	2,104,500	2,420,176	537,197	-	-	537,197
Large Sawtimber	2,783,808	3,201,377	615,121	-	-	615,121
Oversize Sawtimber	6,131,328	7,051,040	1,268,795	-	-	1,268,795
Sub-Total, Heber	13,280,889	15,272,533	3,071,265	454,975	5,970	3,532,210
Working Circle Summary - 17,011 Acres						
Seedlings and Saplings	-	-	-	-	27,734	27,734
Small Poles	-	-	-	1,298,179	-	1,298,179
Large Poles	-	-	-	785,031	-	785,031
Small Sawtimber	10,681,608	12,283,344	3,063,173	-	-	3,063,173
Medium Sawtimber	9,800,178	11,270,201	2,508,190	-	-	2,508,190
Large Sawtimber	13,004,482	14,955,141	2,875,749	-	-	2,875,749
Oversize Sawtimber	29,456,055	33,874,522	6,085,632	-	-	6,085,632
Total, Working Circle	62,942,323	72,383,208	14,532,744	2,083,210	27,734	16,643,688

No inoperable on Pinedale and Lakeside Blocks

5. Net Volumes by Forest Type, Working Group, and Condition

a. Chevelon District, Coconino County Commercial Forest Land Volumes by Forest Type, Working Group, and Condition, National Forest Only, Softwood Species Only

Table 85

Forest Type, Working Group, and Condition	Acres	Sawtimber 11.0" and over D.B.H.: Scribner Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H.: International 1/4" Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H.: Cubic Feet	Poletimber 5.0 - 10.9" D.B.H. Cu. Ft.	Total Cubic Feet
		Net Volumes				
Operable						
Technical Working Group						
Ponderosa Pine	85,942	465,284,841	535,076,978	104,874,710	20,272,272	125,146,982
Mixed Conifer	8,703	94,311,704	108,458,457	22,322,865	3,587,626	25,910,491
Sub-Total	94,645	559,596,545	643,535,435	127,197,575	23,859,898	151,057,473
Administrative Working Group						
Ponderosa Pine	11,083	51,801,550	59,575,698	11,261,580	3,432,624	14,694,204
Mixed-Conifer	1,457	14,866,004	17,095,891	3,782,912	506,358	4,289,270
Sub-Total	12,540	66,667,554	76,671,589	15,044,492	3,938,982	18,983,474
All Operable						
Ponderosa Pine	97,025	517,086,391	594,652,676	116,136,290	23,704,896	139,841,186
Mixed-Conifer	10,160	109,177,708	125,554,348	26,105,777	4,093,984	30,199,761
Sub-Total, Operable	107,185	626,264,099	720,207,024	142,242,067	27,798,880	170,040,947
Inoperable						
Technical Working Group						
Ponderosa Pine	4,487	16,117,172	18,534,758	3,743,878	605,329	4,349,207
Mixed-Conifer	1,413	5,640,785	6,486,904	1,283,111	125,292	1,408,403
Sub-Total	5,900	21,757,957	25,021,662	5,026,989	730,621	5,757,610
Administrative Working Group						
Ponderosa Pine	5,040	18,103,916	20,819,515	4,205,382	679,948	4,885,330
Mixed-Conifer	2,454	9,799,561	11,269,498	2,229,108	217,666	2,446,774
Sub-Total	7,494	27,903,477	32,089,013	6,434,490	897,614	7,332,104
All Inoperable						
Ponderosa Pine	9,527	34,221,088	39,354,273	7,949,260	1,285,277	9,234,537
Mixed-Conifer	3,867	15,440,346	17,756,402	3,512,219	342,958	3,855,177
Sub-Total, Inoperable	13,394	49,661,434	57,110,675	11,461,479	1,628,235	13,089,714
Summary, County-Block						
Ponderosa Pine	106,552	551,307,479	634,006,949	124,085,550	24,990,173	149,075,723
Mixed-Conifer	14,027	124,618,054	143,310,750	29,617,996	4,436,942	34,054,938
TOTAL, County-Block	120,579 1/	675,925,533	777,317,699	153,703,546	29,427,115	183,130,661

1/ Does not include 10,325 acres operable nonstocked and 335 acres aspen.

b. Heber District, Coconino County Commercial Forest Land
Volumes by Forest Type, Working Group, and Condition,
National Forest Only, Softwood Species Only

Table 86

Forest Type, Working Group, and Condition	Acres	Sawtimber 11.0" and over D.B.H. Scribner Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. International 1/4" Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. Cubic Feet	Poletimber 5.0-10.9" D.B.H. Cu. Ft.	Total Cubic Feet
		Net Volumes				
Operable Technical Working Group						
Ponderosa Pine	42,135	194,182,734	223,309,703	42,960,283	10,474,568	53,434,851
Mixed-Conifer	860	8,184,727	9,412,432	1,985,800	521,876	2,507,676
Sub-Total	42,995	202,367,461	232,722,135	44,946,083	10,996,444	55,942,527
Administrative Working Group						
Ponderosa Pine	11,190	39,383,894	45,291,444	8,953,137	4,693,114	13,646,251
Mixed-Conifer	3,406	34,745,985	39,957,852	8,841,717	1,183,498	10,025,215
Sub-Total	14,596	74,129,879	85,249,296	17,794,854	5,876,612	23,671,466
All Operable						
Ponderosa Pine	53,325	233,566,628	268,601,147	51,913,420	15,167,682	67,081,102
Mixed-Conifer	4,266	42,930,712	49,370,284	10,827,517	1,705,374	12,532,891
Sub-Total, Operable	57,591	276,497,340	317,971,431	62,740,937	16,873,056	79,613,993
Inoperable Technical Working Group						
Ponderosa Pine	984	3,535,956	4,066,352	821,371	132,804	954,175
Mixed-Conifer	89	356,780	410,298	81,151	7,925	89,082
Sub-Total	1073	3,892,736	4,476,650	902,528	140,729	1,043,257
Administrative Working Group						
Ponderosa Pine	805	2,893,054	3,326,515	672,031	108,658	780,689
Mixed-Conifer	626	2,499,291	2,874,186	568,514	55,514	624,028
Sub-Total	1,431	5,392,345	6,200,701	1,240,545	164,172	1,404,717
All Inoperable						
Ponderosa Pine	1,789	6,429,010	7,392,867	1,493,402	241,462	1,734,864
Mixed-Conifer	715	2,856,071	3,284,484	649,671	63,439	713,110
Sub-Total, Inoperable	2,504	9,285,081	10,677,351	2,143,073	304,901	2,447,974
Summary, County-Block						
Ponderosa Pine	55,114	239,995,638	275,994,014	53,406,822	15,409,144	68,815,966
Mixed-Conifer	4,981	45,786,783	52,654,768	11,477,188	1,768,813	13,246,001
TOTAL, County-Block	60,095 1/	285,782,421	328,648,782	64,884,010	17,177,957	82,061,967

1/ Does not include 858 acres operable nonstocked and 286 acres aspen.

c. Heber District, Navajo County Commercial Forest Land Volumes by Forest Type, Working Group, and Condition, National Forest Only, Softwood Species Only

Table 87

Forest Type, Working Group and Condition	Acres	Sawtimber 11.0" and over D.B.H. Scribner Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. International ¼" Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. Cubic Feet	Poletimber 5.0-10.9" D.B.H. Cu. Ft.	Total Cubic Feet
		-Net Volumes-				
Operable Technical Working Group						
Ponderosa Pine	74,767	314,768,676	361,983,379	71,258,202	19,575,794	90,833,996
Mixed-Conifer	1,620	16,615,809	19,108,175	4,021,960	756,054	4,778,014
Sub-Total	76,387	331,384,485	381,091,554	75,280,162	20,331,848	95,612,010
Administrative Working Group						
Ponderosa Pine	8,613	25,245,585	29,032,412	5,793,903	4,029,293	9,823,196
Mixed-Conifer	297	3,034,775	3,489,990	772,251	103,369	875,620
Sub-Total	8,910	28,280,360	32,522,402	6,566,154	4,132,662	10,698,816
All Operable						
Ponderosa Pine	83,380	340,014,261	391,015,791	77,052,105	23,605,087	100,657,192
Mixed-Conifer	1,917	19,650,584	22,598,165	4,794,211	859,423	5,653,634
Sub-Total, Operable	85,297	359,664,845	413,613,956	81,846,316	24,464,510	106,310,826
Inoperable Technical Working Group						
Ponderosa Pine	1,113	3,995,808	4,595,182	928,192	150,074	1,078,266
Mixed-Conifer	-	-	-	-	-	-
Sub-Total	1,113	3,995,808	4,595,182	928,192	150,074	1,078,266
Administrative Working Group						
Ponderosa Pine	-	-	-	-	-	-
Mixed-Conifer	-	-	-	-	-	-
Sub-Total	-	-	-	-	-	-
All Inoperable						
Ponderosa Pine	1,113	3,995,808	4,595,182	928,192	150,074	1,078,266
Mixed-Conifer	-	-	-	-	-	-
Sub-Total, Inoperable	1,113	3,995,808	4,595,182	928,192	150,074	1,078,266
Summary, County-Block						
Ponderosa Pine	84,493	344,010,069	395,610,973	77,980,297	23,755,161	101,735,458
Mixed-Conifer	1,917	19,650,584	22,598,165	4,794,211	859,423	5,653,634
TOTAL, County-Block	86,410 1/	363,660,653	418,209,138	82,774,508	24,614,584	107,389,092

1/ Does not include 1,854 acres operable nonstocked and 148 acres aspen.

d. Lakeside District, Apache County Commercial Forest Land
Volumes by Forest Type, Working Group, and Condition,
National Forest Only, Softwood Species Only

Table 88

Forest Type, Working Group, and Condition	Acres	Sawtimber 11.0" and over D.B.H. Scribner Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. International 1/4" Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. Cubic Feet	Poletimber 5.0 -10.9" D.B.H. Cu. Ft.	Total Cubic Feet
		Net Volumes				
Operable Technical Working Group						
Ponderosa Pine	29,844	120,765,584	138,880,160	26,955,097	8,780,403	35,735,500
Mixed-Conifer	870	8,873,421	10,204,427	2,257,995	302,242	2,560,237
Sub-Total	30,714	129,639,005	149,084,587	29,213,092	9,082,645	38,295,737
Administrative Working Group						
Ponderosa Pine	859	4,479,522	5,151,438	963,588	186,673	1,150,261
Mixed-Conifer	385	3,925,417	4,514,226	998,890	133,705	1,132,595
Sub-Total	1,244	8,404,939	9,665,664	1,962,478	320,378	2,282,856
All Operable						
Ponderosa Pine	30,703	125,245,106	144,031,598	27,918,685	8,967,076	36,885,761
Mixed-Conifer	1,255	12,798,838	14,718,653	3,256,885	435,947	3,692,832
Sub-Total, Operable	31,958	138,043,944	158,750,251	31,175,570	9,403,023	40,578,593
Inoperable Technical Working Group						
Ponderosa Pine	-	-	-	-	-	-
Mixed-Conifer	-	-	-	-	-	-
Sub-Total	-	-	-	-	-	-
Administrative Working Group						
Ponderosa Pine	-	-	-	-	-	-
Mixed-Conifer	-	-	-	-	-	-
Sub-Total	-	-	-	-	-	-
All Inoperable						
Ponderosa Pine	-	-	-	-	-	-
Mixed-Conifer	-	-	-	-	-	-
Sub-Total, Inoperable	-	-	-	-	-	-
Summary, County-Block						
Ponderosa Pine	30,703	125,245,106	144,031,598	27,918,685	8,967,076	36,885,761
Mixed-Conifer	1,255	12,798,838	14,718,653	3,256,885	435,947	3,692,832
TOTAL, County-Block	31,958 1/	138,043,944	158,750,251	31,175,570	9,403,023	40,578,593

1/ Does not include 1,042 acres nonstocked and 589 acres aspen.

e. Lakeside District, Navajo County Commercial Forest Land Volumes by Forest Type, Working Group, and Condition, National Forest Only, Softwood Species Only

Table 89

Forest Type, Working Group, and Condition	Acres	Sawtimber 11.0" and over D.B.H. Scribner Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. International 1/4" Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. Cubic Feet	Poletimber 5.0 - 10.9" D.B.H. Cu. Ft.	Total Cubic Feet
		Net Volumes				
Operable Technical Working Group						
Ponderosa Pine	25,119	92,702,079	106,607,230	21,201,456	7,440,771	28,642,227
Mixed-Conifer	-	-	-	-	-	-
Sub-Total	25,119	92,702,079	106,607,230	21,201,456	7,440,771	28,642,227
Administrative Working Group						
Ponderosa Pine	6,558	23,495,243	27,019,495	5,446,326	1,872,243	7,318,569
Mixed-Conifer	-	-	-	-	-	-
Sub-Total	6,558	23,495,243	27,019,495	5,446,326	1,872,243	7,318,569
All Operable						
Ponderosa Pine	31,677	116,197,322	133,626,725	26,647,782	9,313,014	35,960,796
Mixed-Conifer	-	-	-	-	-	-
Sub-Total, Operable	31,677	116,197,322	133,626,725	26,647,782	9,313,014	35,960,796
Inoperable Technical Working Group						
Ponderosa Pine	-	-	-	-	-	-
Mixed-Conifer	-	-	-	-	-	-
Sub-Total	-	-	-	-	-	-
Administrative Working Group						
Ponderosa Pine	-	-	-	-	-	-
Mixed-Conifer	-	-	-	-	-	-
Sub-Total	-	-	-	-	-	-
All Inoperable						
Ponderosa Pine	-	-	-	-	-	-
Mixed-Conifer	-	-	-	-	-	-
Sub-Total, Inoperable	-	-	-	-	-	-
Summary, County-Block						
Ponderosa Pine	31,677	116,197,322	133,626,725	26,647,782	9,313,014	35,960,796
Mixed-Conifer	-	-	-	-	-	-
TOTAL, County-Block	31,677 1/	116,197,322	133,626,725	26,647,782	9,313,014	35,960,796

1/ Does not include 1,302 acres operable nonstocked.

f. Pinedale District, Navajo County Commercial Forest Land
Volumes by Forest Type, Working Group, and Condition,
National Forest Only, Softwood Species Only

Table 90

Forest Type, Working Group, and Condition	Acres	Sawtimber 11.0" and over D.B.H Scribner Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H International 1/4" Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H Cubic Feet	Poletimber 5.0 - 10.9" D.B.H. Cu. Ft.	Total Cubic Feet
		Net Volumes				
Operable Technical Working Group						
Ponderosa Pine	70,772	228,596,873	262,885,672	53,339,120	24,978,491	78,317,611
Mixed-Conifer	-	-	-	-	-	-
Sub-Total	70,772	228,596,873	262,885,672	53,339,120	24,978,491	78,317,611
Administrative Working Group						
Ponderosa Pine	3,039	8,919,213	10,257,089	2,081,451	1,285,947	3,367,398
Mixed-Conifer	-	-	-	-	-	-
Sub-Total	3,039	8,919,213	10,257,089	2,081,451	1,285,947	3,367,398
All Operable						
Ponderosa Pine	73,811	237,516,086	273,142,761	55,420,571	26,264,438	81,685,009
Mixed-Conifer	-	-	-	-	-	-
Sub-Total, Operable	73,811	237,516,086	273,142,761	55,420,571	26,264,438	81,685,009
Inoperable Technical Working Group						
Ponderosa Pine	-	-	-	-	-	-
Mixed-Conifer	-	-	-	-	-	-
Sub-Total	-	-	-	-	-	-
Administrative Working Group						
Ponderosa Pine	-	-	-	-	-	-
Mixed-Conifer	-	-	-	-	-	-
Sub-Total	-	-	-	-	-	-
All Inoperable						
Ponderosa Pine	-	-	-	-	-	-
Mixed-Conifer	-	-	-	-	-	-
Sub-Total, Inoperable	-	-	-	-	-	--
Summary, County-Block						
Ponderosa Pine	73,811 1/	237,516,086	273,142,761	55,420,571	26,264,438	81,685,009
Mixed-Conifer	-	-	-	-	-	-
TOTAL, County-Block	73,811	237,516,086	273,142,761	55,420,571	26,264,438	81,685,009

1/ Does not include 2,453 acres operable nonstocked.

6. Aspen Volumes by Size Groupings and Block (District), National Forest Only

Table 91

Block and Size Grouping	Sawtimber 11.0" and over D.B.H. Scribner Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. International 1/4" Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. Cubic Feet	Poletimber 5.0 to 10.9" D.B.H. Cu. Ft.	Total Cubic Feet
	Net Volumes				
Chevelon Block - 335 Acres Pure Type and 48,122 Acres mixed Types					
Small Poles	-	-	-	614,117	614,117
Large Poles	-	-	-	866,003	866,003
Small Sawtimber	5,923,655	6,812,206	1,057,795	-	1,057,795
Medium Sawtimber	4,404,557	5,065,241	786,528	-	786,528
Sub-Total, Chevelon	10,328,212	11,877,447	1,844,323	1,480,120	3,324,443
Heber Block - 434 Acres Pure Type and 69,752 Acres Mixed Types					
Small Poles	-	-	-	204,063	204,063
Large Poles	-	-	-	287,349	287,349
Small Sawtimber	3,378,576	3,885,366	603,318	-	603,318
Medium Sawtimber	1,461,987	1,681,286	261,069	-	261,069
Sub-Total, Heber	4,840,563	5,566,652	864,387	491,412	1,355,799
Lakeside Block - 589 Acres Pure Type and 30,070 Acres Mixed Types					
Small Poles	-	-	-	153,210	153,210
Large Poles	-	-	-	215,902	215,902
Small Sawtimber	1,529,413	1,758,827	273,107	-	273,107
Medium Sawtimber	1,098,276	1,263,018	196,121	-	196,121
Sub-Total, Lakeside	2,627,689	3,021,845	469,228	369,112	838,340
Pinedale Block - 18,245 Acres Mixed Types					
Small Poles	-	-	-	365	365
Large Poles	-	-	-	365	365
Small Sawtimber	4,092	4,700	730		730
Medium Sawtimber	2,044	2,350	365	-	365
Sub-Total, Pinedale	6,136	7,050	1,095	730	1,825
Working Circle Summary - 1,358 Acres Pure Type and 164,831 Acres Mixed Types					
Small Poles	-	-	-	971,755	971,755
Large Poles	-	-	-	1,369,619	1,369,619
Small Sawtimber	10,835,736	12,461,099	1,934,950	-	1,934,950
Medium Sawtimber	6,966,864	8,011,895	1,244,083	-	1,244,083
TOTAL, Working Circle	17,802,600	20,472,994	3,179,033	2,341,374	5,520,407

7. Aspen Net Volumes by Size Grouping, Working Group, and Condition

a. Chevelon District, Coconino County Commercial Forest Land Volumes by Size Groupings, Working Group, and Condition National Forest Only, ASPEN SPECIES Only

Table 92

Working Group Size Grouping and Condition	Sawtimber 11.0" and over D.B.H. Scribner Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. International 1/4" Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. Cubic Feet	Poletimber 5.0 to 10.9" D.B.H. Cu. Ft.	Total Cubic Feet
	Net Volumes				
All Operable Technical Working Group - 40,540 Acres					
Small Poles	-	-	-	256,909	256,909
Large Poles	-	-	-	362,124	362,124
Small Sawtimber	2,955,337	3,398,640	527,739	-	527,739
Medium Sawtimber	1,841,989	2,118,288	328,927	-	328,927
Sub-Total Technical	4,797,326	5,516,928	856,666	619,033	1,475,699
Administrative Working Group - 7,582 (335 Aspen) Acres					
Small Poles	-	-	-	357,208	357,208
Large Poles	-	-	-	503,879	503,879
Small Sawtimber	2,968,318	3,413,566	530,056	-	530,056
Medium Sawtimber	2,562,568	2,946,953	457,601	-	457,601
Sub-Total, Administrative	5,530,886	6,360,519	987,657	861,087	1,848,744
Block and County Summary - 48,122 (335 Aspen) Acres					
Small Poles	-	-	-	614,117	614,117
Large Poles	-	-	-	866,003	866,003
Small Sawtimber	5,923,655	6,812,206	1,057,795	-	1,057,795
Medium Sawtimber	4,404,557	5,065,241	786,528	-	786,528
TOTAL-County-Block	10,328,212	11,877,447	1,844,323	1,480,120	3,324,443

b. Heber District, Coconino County Commercial Forest Land Volumes by Size Groupings, Working Group, and Condition, National Forest Only, ASPEN SPECIES Only

Table 93

Working Group, Size Grouping, and Condition	Sawtimber 11.0" and over D.B.H. Scribner Rule Bd Ft.	Sawtimber 11.0" and over D.B.H. International 1/4" Rule Bd. Ft	Sawtimber 11.0" and over D.B.H. Cubic Feet	Poletimber 5.0 to 10 9" Cu. Ft	Total Cubic Feet
	Net Volumes				
All Operable Technical Working Group - 24,484 Acres					
Small Poles	-	-	-	50,620	50,620
Large Poles	-	-	-	71,214	71,214
Small Sawtimber	512,465	589,336	91,512	-	91,512
Medium Sawtimber	362,409	416,770	64,716	-	64,716
Sub-Total, Technical	874,874	1,006,106	156,228	121,834	278,062
Administrative Working Group - 6,892 (286 Aspen) Acres					
Small Poles	-	-	-	71,746	71,746
Large Poles	-	-	-	101,186	101,186
Small Sawtimber	1,851,972	2,129,769	330,709	-	330,709
Medium Sawtimber	514,622	591,816	91,897	-	91,897
Sub-Total, Admin	2,366,594	2,721,585	422,606	172,932	595,538
Block and County Summary - 31,376 (286 Aspen) Acres					
Small Poles	-	-	-	122,366	122,366
Large Poles	-	-	-	172,400	172,400
Small Sawtimber	2,364,437	2,719,105	422,221	-	422,221
Medium Sawtimber	877,031	1,008,586	156,613	-	156,613
TOTAL - County - Block	3,241,468	3,727,691	578,834	294,766	873,600

c. Heber District, Navajo County Commercial Forest Land
Volumes by Size Groupings, Working Group, & Condition,
National Forest Only, ASPEN SPECIES Only

Table 94

Working Group, Size Grouping and Condition	Sawtimber 11.0" and over D.B.H. Scribner Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. International 1/4" Rule Bd. Ft.	Cubic Feet	Poletimber 5.0 to 10.9" D.B.H. Cu. Ft.	Total Cubic Feet
	Net Volumes				
All Operable					
Technical Working Group - 35,906 Acres					
Small Poles	-	-	-	13,204	13,204
Large Poles	-	-	-	18,340	18,340
Small Sawtimber	437,605	503,246	78,145	-	78,145
Medium Sawtimber	93,628	107,672	16,719	-	16,719
Sub-Total, Technical	531,233	610,918	94,864	31,544	126,408
Administrative Working Group - 2470 (148 Aspen) Acres					
Small Poles	-	-	-	68,493	68,493
Large Poles	-	-	-	96,609	96,609
Small Sawtimber	576,534	663,015	102,952	-	102,952
Medium Sawtimber	491,328	565,028	87,737	-	87,737
Sub-Total, Admin.	1,067,862	1,228,043	190,689	165,102	355,791
Block and County Summary - 38,376 (148 Aspen) Acres					
Small Poles	-	-	-	81,697	81,697
Large Poles	-	-	-	114,949	114,949
Small Sawtimber	1,014,139	1,166,261	181,097	-	181,097
Medium Sawtimber	584,956	672,700	104,456	-	104,456
TOTAL-County-Block	1,599,095	1,838,961	285,553	196,646	482,199

d. Lakeside District, Apache County Commercial Forest Land
Volumes by Size Groupings, Working Group, and Condition,
National Forest Only, ASPEN SPECIES Only

Table 95

Working Group Size Grouping, and Condition	Sawtimber 11.0" and over D.B.H. Scribner Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. International 1/4" Rule Bd. Ft.	Cubic Feet	Poletimber 5.0 to 10.9" Cu. Ft.	Total Cubic Feet
	Net Volumes				
All Operable					
Technical Working Group - 15,803 Acres					
Small Poles	-	-	-	5,325	5,325
Large Poles	-	-	-	7,389	7,389
Small Sawtimber	387,630	445,775	69,219	-	69,219
Medium Sawtimber	37,734	43,395	6,738	-	6,738
Sub-Total, Technical	425,364	489,170	75,957	12,714	88,671
Administrative Working Group - 1574 (589 Aspen) Acres					
Small Poles	-	-	-	147,631	147,631
Large Poles	-	-	-	208,259	208,259
Small Sawtimber	1,138,942	1,309,784	203,380	-	203,380
Medium Sawtimber	1,059,121	1,217,989	189,129	-	189,129
Sub-Total, Admin.	2,198,063	2,527,773	392,509	355,890	748,399
Block and County Summary - 17,377 (589 Aspen) Acres					
Small Poles	-	-	-	152,956	152,956
Large Poles	-	-	-	215,648	215,648
Small Sawtimber	1,526,572	1,755,559	272,599	-	272,599
Medium Sawtimber	1,096,855	1,261,384	195,867	-	195,867
TOTAL-County-Block	2,623,427	3,016,943	468,466	368,604	837,070

e. Lakeside District, Navajo County Commercial Forest Land Volumes by Size Groupings, Working Group, and Condition, National Forest Only, ASPEN SPECIES Only

Table 96

Working Group, Size Grouping, and Condition	Sawtimber 11.0" and over D.B.H. Scribner Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. International 1/4" Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. Cubic Feet	Poletimber 5.0 to 10.9" D.B.H. Cu. Ft.	Total Cubic Feet
	Net Volumes				
All Operable Technical Working Group - 10,293 Acres					
Small Poles	-	-	-	206	206
Large Poles	-	-	-	206	206
Small Sawtimber	2,305	2,651	412	-	412
Medium Sawtimber	1,153	1,325	206	-	206
Sub-Total, Technical	3,458	3,976	618	412	1,030
Administrative Working Group - 2,400 Acres					
Small Poles	-	-	-	48	48
Large Poles	-	-	-	48	48
Small Sawtimber	536	617	96	-	96
Medium Sawtimber	268	309	48	-	48
Sub-Total, Admin.	804	926	144	96	240
Block and County Summary - 12,693 Acres					
Small Poles	-	-	-	254	254
Large Poles	-	-	-	254	254
Small Sawtimber	2841	3268	508	-	508
Medium Sawtimber	1421	1634	254	-	254
TOTAL-County-Block	4262	4902	762	508	1270

f. Pinedale District, Navajo County Commercial Forest Land Volumes by Size Groupings, Working Group, and Condition, National Forest Only, ASPEN SPECIES Only

Table 97

Working Group Size Grouping, and Condition	Sawtimber 11.0" and over D.B.H. Scribner Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. International 1/4" Rule Bd. Ft.	Sawtimber 11.0" and over D.B.H. Cubic Feet	Poletimber 5.0 to 10.9" D.B.H. Cu. Ft.	Total Cubic Feet
	Net Volumes				
All Operable Technical Working Group - 17,545 Acres					
Small Poles	-	-	-	351	351
Large Poles	-	-	-	351	351
Small Sawtimber	3,936	4,521	702	-	702
Medium Sawtimber	1,966	2,260	351	-	351
Sub-Total, Technical	5,902	6,781	1,053	702	1,755
Administrative Working Group - 700 Acres					
Small Poles	-	-	-	14	14
Large Poles	-	-	-	14	14
Small Sawtimber	156	179	28	-	28
Medium Sawtimber	78	90	14	-	14
Sub-Total, Admin.	234	269	42	28	70
Block and County Summary - 18,245 Acres					
Small Poles	-	-	-	365	365
Large Poles	-	-	-	365	365
Small Sawtimber	4,092	4,700	730	-	730
Medium Sawtimber	2,044	2,350	365	-	365
TOTAL-County-Block	6,136	7,050	1,095	730	1,825

8. Net Volumes Per Acre by Type and by Species

a. Net Volumes Per Acre by Type and By Species

Table 98

Scribner Rule Board Feet

Ground Type	Acres	Ponderosa Pine: Blackjack	Ponderosa Pine: Yellow Pine	Ponderosa Pine: Sub-Total	White Fir	Douglas-fir	Limber Pine	Total Softwoods	No. of Plots
					Board Feet				
Site I									
PI-C	6,590	2,433.16	6,855.03	9,288.19	-	-	-	9,288.19	2
PI-V	2,507	-	11,060.70	11,060.70	-	-	-	11,060.70	1
	9,097								3
Site II									
PI-C	151,546	1,936.67	2,658.90	4,595.57	5,438.01	833.55	-	10,867.13	46
P2=C	92,880	1,906.70	-	1,906.70	-	-	-	1,906.70	2
PI-V	25,067	2,269.20	4,463.22	6,732.42	-	48.55	-	6,780.97	10
PI=V	3,957	2,240.30	8,277.90	10,518.20	123.83	-	-	10,642.03	3
MCI-C	10,778	-	-	-	2,271.34	7,930.52	-	10,201,86	1
MCI=C	1,010	774.42	600.32	1,374.74	502.36	1,913.43	-	3,790.53	1
MCI-V	5,810	967.55	3,771.87	4,739.42	-	6,941.84	500.11	12,181.37	2
	291,048								65
Site III									
PI-C	82,360	1,150.90	1,768.48	2,919.38	-	-	-	2,919.38	25
PI-V	5,014	1,792.91	3,582.99	5,375.90	-	-	-	5,375.90	2
	87,374								27
Operable	387,519								95
Aspen	1,358	-	-	-	-	-	-	-	0
PX	12,429	2,269.20	4,463.22	6,732.42	-	48.55	-	6,780.97	0
MCX	4,582	967.55	3,771.87	4,739.42	-	6,941.84	500.11	12,181.37	0
Inoperable	17,011								0
Nonstocked	17,834								0
Working Circle	423,722								95

b. Net Volumes per Acre by Type and by Species

Table 99

International 1/4" Rule Board Feet

Ground Type	Acres	Ponderosa Pine: Black Jack	Ponderosa Pine: Yellow Pine	Ponderosa Pine: Sub-Total	White Fir	Douglas-fir	Limber Pine	Total Softwoods	No. of Plots
					Board Feet				
Site I									
P1-C	6,590	2,798.13	7,883.29	9,288.19	-	-	-	9,288.19	2
P1-V	2,507	-	12,719.80	12,719.80	-	-	-	12,719.80	1
	9,097								3
Site II									
P1-C	151,546	2,227.16	3,057.73	5,284.89	10.22	958.58	-	6,253 69	46
P2=C	92,880	2,192.71	-	2,192.71	-	-	-	2,192.71	2
P1-V	25,067	2,609.58	5,132.71	7,742.29	-	55.83	-	7,798.12	10
P1=V	3,957	2,576.35	9,519.59	12,095.94	142.40	-	-	12,238.34	3
MC1-C	10,778	-	-	-	2,612.04	9,120.09	-	11,732.13	1
Mc1=C	1,010	890.58	690.37	1,580.95	577.71	2,200.45	-	4,359.11	1
Mc1-V	5,810	1,112.68	4,337.65	5,450.33	-	7,983.12	575.13	14,008.58	2
	291,048								65
Site III									
P1-C	82,360	1,323.54	2,033.75	3,357.29	-	-	-	3,357.29	25
P1-V	5,014	2,061.85	4,120.44	6,182.29	-	-	-	6,182.29	2
	87,374								27
Operable	387,519								95
Aspen	1,358								0
PX	12,429	2,609.58	5,132.71	7,742.29	-	55.83	-	7,798.12	0
MCX	4,582	1,112.68	4,337.65	5,450.33	-	7,983.12	575.13	14,008.58	0
Inoperable	17,011								0
Nonstocked	17,834								
Working Circle	423,722								

c. Net Volumes per Acre by Type and by Species

Table 100

Cubic Feet 1/

Ground	Acres	Ponderosa Pine: Black Jack	Ponderosa Pine: Yellow Pine	Ponderosa Pine: Sub-Total	White Fir	Douglas-fir	Limber Pine	Total Softwoods	Aspen	No. of Plots
					Cubic Feet					
Site I										
P1-C	6,590	589.00	1,450.24	2,039.24	-	-	-	2,039 24	-	2
P1-V	2,507	96.64	2,229,77	2,326.41	-	- -	-	2,326.41	1,223,55	1
	9,097									3
Site II										
P1-C	151,546	661.80	624.95	1,286,75	2.96	55.64	-	1,345,15	0.10	46
P2=C	92,880	878.03	-	878.03	93.40	95.84	31.06	1,098.33	-	2
P1-V	25,067	814.94	1,008.57	1,823.51	-	9.55	-	1,833.06		10
P1=V	3,957	786.76	1,959.77	2,746.53	45,51	19.57	-	2,811.61	-	3
MC1-C	10,778	-	-	-	742.27	2,206.01	-	2,948.28	72.02	1
MC1=C	1,010	668.23	126.70	794.93	415.36	1,596.62	-	2,806.91	-	1
MC1-V	5,810	403.69	898.33	1,302.02	-	1.552.38	191.42	3,045.82	-	2
	291,048									65
Site III										
P1-C	82,360	471.98	489.29	961.27	-	-	-	961.27	-	25
P1-V	5,014	473.84	995.20	1,469.04	-	-	-	1,469.04	-	2
	87,374									27
Operable	387,519									95
Aspen	1,358	-	-	-	-	-	-	-	1,223,55	0
PX	12,429	814.94	1,008.57	1,823.51	-	9.55	-	1,833.06	-	0
MCX	4,582	403.69	898.33	1,302.02	-	1,552.38	191.42	3,045.82	-	0
Inoperable	17,011									0
NonStocked	17,834									
Working Circle	423,722									95

1/ Includes seedlings and saplings.

9. Gross Volumes Per Acre by Type and by Species

a. Gross Volumes Per Acre By Type and By Species

Table 101

Scribner Rule Board Feet

Ground Type	Acres	Ponderosa Pine Blackjack	Ponderosa Pine Yellow Pine	Ponderosa Pine Subtotal	White Fir	Douglas-Fir	Limber Pine	Total Softwoods	No. of Plots
Site I				Board Feet					
PI-C	6,590	2,653.80	9,357.10	12,010.90	-	-	-	12,010.90	2
PI-V	2,507	-	15,801.00	15,801.00	-	-	-	15,801.00	1
	9,097								3
Site II									
PI-C	151,546	2,080.91	3,726.75	5,807.66	10.46	877.42	-	6,695.54	46
P2=C	92,880	2,092.55	-	2,092.55	-	-	-	2,092.55	2
PI-V	25,067	2,426.19	6,296.09	8,722.28	-	49.54	-	8,771.82	10
PI=V	3,957	2,369.22	11,549.87	13,919.09	206.39	-	-	14,125.48	3
MCI-C	10,778	-	-	-	3,518.70	8,337.50	-	11,856.20	1
MCI=C	1,010	837.10	857.60	1,694.70	528.80	2,005.10	-	4,228.60	1
MCI-V	5,810	1,026.30	5,203.70	6,230.00	-	7,279.15	562.80	14,071.95	2
	291,048								65
Site III									
PI-C	82,360	1,220.33	2,426.94	3,647.27	-	-	-	3,647.27	25
PI-V	5,014	1,917.85	4,877.65	6,795.50	-	-	-	6,795.50	2
	87,374								27
Operable	387,519								95
Aspen	1,358	-	-	-	-	-	-	-	0
PX	12,429	2,426.19	6,296.09	8,722.28	-	49.54	-	8,771.82	0
MCX	4,582	1,026.30	5,203.70	6,230.00	-	7,279.15	562.80	14,071.95	0
Inoperable	17,011								0
Nonstocked	17,834								
Working Circle	423,722								95

b. Gross Volumes Per Acre By Type and By Species

Table 102

International $\frac{1}{4}$" Rule Board Feet

Ground Type	Acres	Ponderosa Pine Blackjack	Ponderosa Pine Yellow Pine	Ponderosa Pine Subtotal	White Fir	Douglas-Fir	Limber Pine	Total Softwoods	No. of Plots
Site I				Board Feet					
PI-C	6,590	3,051.87	10,760.66	13,812.53	-	-	-	13,812.53	2
PI-V	2,507	-	18,171.20	18,171.20	-	-	-	18,171.20	1
	9,097								3
Site II									
PI-C	151,546	2,393.06	4,285.75	6,678.81	12.03	1,009.03	-	7,699.87	46
P2=C	92,880	2,406.44	-	2,406.44	-	-	-	2,406.66	2
PI-V	25,067	2,790.14	7,240.51	10,030.65	-	56.97	-	10,087.62	10
PI=V	3,957	2,724.61	13,282.35	16,006.96	237.35	-	-	16,244.31	3
MCI-C	10,778	-	-	-	4,046.50	9,588.11	-	13,634.61	1
MCI=C	1,010	962.67	986.24	1,948.91	608.12	2,305.86	-	4,862.89	1
MCI-V	5,810	1,180.25	5,984.25	7,164.50	-	8,371.02	647.22	16,182.74	2
	291,048								65
Site III									
PI-C	82,360	1,403.38	2,790.98	4,194.36	-	-	-	4,194.36	25
PI-V	5,014	2,205.52	5,609.30	7,814.82	-	-	-	7,814.82	2
	87,374								27
Operable	387,519								95
Aspen	1,358	-	-	-	-	-	-	-	0
PX	12,429	2,790.14	7,240.51	10,030.65	-	56.97	-	10,087.62	0
MCX	4,582	1,180.25	5,984.25	7,164.50	-	8,371.02	647.22	16,182.74	0
Inoperable	17,011								0
Nonstocked	17,834								
Working Circle	423,722								95

c. Gross Volumes Per Acre By Type and By Species

Table 103

Cubic Feet [1/]

Ground Type	Acres	Ponderosa Pine Blackjack	Ponderosa Pine Yellow Pine	Ponderosa Pine Subtotal	White Fir	Douglas-Fir	Limber Pine	Total Softwoods	Aspen	No. of Plots
Site I				Cubic Feet						
PI-C	6,590	592.06	1,596.42	2,188.48	-	-	-	2,188.48	-	2
PI-V	2,507	96.64	2,477.52	2,574.16	-	-	-	2,574.16	1,529.44	1
	9,097									3
Site II										
PI-C	151,546	663.30	680.77	1,344.07	2.96	55.64	-	1,402.67	0.12	46
P2=C	92,880	884.64	-	884.64	93.40	95.84	31.06	1,104.94	-	2
PI-V	25,067	816.00	1,105.64	1,921.64	-	9.54	-	1,931.18	-	10
PI=V	3,957	786.76	2,130.91	2,917.67	49.78	19.57	-	2,987.02	-	3
MCI-C	10,778	.28	-	.28	807.36	2,206.00	-	3,013.64	90.02	1
MCI=C	1,010	758.23	140.78	899.01	415.36	1,596.62	-	2,910.99	-	1
MCI-V	5,810	403.69	965.90	1,369.59	-	1,552.38	194.29	3,116.26	-	2
	291,048									65
Site III										
PI-C	82,360	471.98	521.47	993.45	-	-	-	993.45	-	25
PI-V	5,014	473.84	1,052.75	1,526.59	-	-	-	1,526.59	-	2
	87,374									27
Operable	387,519									95
Aspen	1,358	-	-	-	-	-	-	-	1,529.44	0
PX	12,429	816.00	1,105.64	1,921.64	-	9.54	-	1,931.18	-	0
MCX	4,582	403.69	965.90	1,369.59	-	1,552.38	194.29	3,116.26	-	0
Inoperable	17,011									0
Nonstocked	17,834									
Working Circle	423,722									95

1/ Includes seedlings and saplings.

a. Working Circle Net Volumes By Type and By Species

Table 104 Scribner Rule M Board Feet

Ground Type	Acres	Ponderosa Pine Blackjack	Ponderosa Pine Yellow Pine	Ponderosa Pine Subtotal	White Fir	Douglas-Fir	Limber Pine	Total Softwoods	Aspen	No. of Plots
				M Board Feet						
Site I										
PI-C	6,590	16,034.524	45,174.648	61,209.172	-	-	-	61,209.172	-	2
PI-V	2,507	-	27,729.175	27,729.175	-	-	-	27,729.175	8,694.902	1
	9,097	16,034.524	72,903.823	88,938.347	-	-	-	88,938.347	8,694.902	3
Site II										
PI-C	151,546	293,494.592	402,945.659	696,440.251	1,347.244	126,321.168	-	824,108.663	50.921	46
P2=C	92,880	177,094.296	-	177,094.296	-	-	-	177,094.296	-	2
PI-V	25,067	56,882.037	111,879.536	168,761.573	-	1,217.003	-	169,978.576	-	10
PI=V	3,957	8,864.867	32,755.650	41,620.517	489.995	-	-	42,110.512	-	3
MCI-C	10,778	-	-	-	24,480.502	85,475.145	-	109,955.647	4,346.899	1
MCI=C	1,010	782.164	606.323	1,388.487	507.384	1,932.564	-	3,828.435	0	1
MCI-V	5,810	5,621.466	21,914.565	27,536.031	-	40,332.090	2,905.639	70,773.760	-	2
	291,048	542,739.422	570,101.733	1,112,841.155	26,825.125	255,277.970	2,905.639	1,397,849.889	4,397.820	65
Site III										
PI-C	82,360	94,788.124	145,652.513	240,440.637	-	-	-	240,440.637	-	25
PI-V	5,014	8,989.651	17,965.112	26,954.763	-	-	-	26,954.763	-	2
	87,374	103,777.775	163,617.625	267,395.400	-	-	-	267,395.400	-	27
Subtotal Operable	387,519	662,551.721	806,623.181	1,469,174.902	26,825.125	255,277.970	2,905.639	1,754,183.636	-	95
Aspen	1,358	-	-	-	-	-	-	-	4,709.878	0
PX	12,429 2/	14,940.413	29,385.840	44,326.253	-	319.653	-	44,645.906	-	0
MCX	4,582 3/	1,453.260	5,665.348	7,118.608	-	10,426.644	751.165	18,296.417	-	0
Subtotal Inoperable	17,011	16,393.673	35,051.188	51,444.861	-	10,746.297	751.165	62,942.323	-	0
Working Circle Total	405,888 1/	678,945.394	841,674.369	1,520,619.763	26,825.125	266,024.267	3,656.804	1,817,125.959	17,802.600	95

1/ Does not include 17,834 Acres of nonstocked land.
2/ Volumes calculated on 6,584 stocked Acres
3/ Volumes calculated on 1,502 stocked acres.

b. Working Circle Net Volumes By Type and By Species

Table 105 International ¼" Rule M Board Feet

Ground Type	Acres	Ponderosa Pine Blackjack	Ponderosa Pine Yellow Pine	Ponderosa Pine Subtotal	White Fir	Douglas-Fir	Limber Pine	Total Softwoods	Aspen	No. of Plots
				M Board Feet						
Site I										
PI-C	6,590	18,439.677	51,950.881	70,390.558	-	-	-	70,390.558	-	2
PI-V	2,507	-	31,888.539	31,888.539	-	-	-	31,888.539	9,999.137	1
	9,097	18,439.677	83,839.420	102,279.097	-	-	-	102,279.097	9,999.137	3
Site II										
PI-C	151,546	337,517.189	463,386.751	800,903.940	1,548.800	145,268.965	-	947,721.705	58.559	46
P2=C	92,880	203,658.904	-	203,658.904	-	-	-	203,658.904	-	2
PI-V	25,067	65,414.342	128,661.642	194,075.984	-	1,399.491	-	195,475.475	-	10
PI=V	3,957	10,194.617	37,669.018	47,863.635	563.477	-	-	48,427.112	-	3
MCI-C	10,778	-	-	-	28,152.567	98,296.330	-	126,448.897	4,998.934	1
MCI=C	1,010	899.487	697.274	1,596.761	583.487	2,222.455	-	4,402.703	-	1
MCI-V	5,810	6,464.671	25,201.747	31,666.418	-	46,381.927	3,341.505	81,389.850	-	2
	291,048	624,149.210	655,616.432	1,279,765.642	30,848.331	293,569.168	3,341.505	1,607,524.646	5,057.493	65
Site III										
PI-C	82,360	109,006.754	167,503.649	276,510.403	-	-	-	276,510.403	-	25
PI-V	5,014	10,338.116	20,659.886	30,998.002	-	-	-	30,998.002	-	2
	87,374	119,344.870	188,163.535	307,508.405	-	-	-	307,508.405	-	27
Subtotal Operable	387,519	761,933.757	927,619.387	1,689,553.144	30,848.331	293,569.168	3,341.505	2,017,312.148	15,056.630	95
Aspen	1,358	-	-	-	-	-	-	-	5,416.364	0
PX	12,429 2/	17,180.974	33,793.763	50,974.737	-	367.585	-	51,342.322	-	0
MCX	4,582 3/	1,671.245	6,515.150	8,186.395	-	11,990.646	863.845	21,040.886	-	0
Subtotal Inoperable	17,011	18,852.219	40,308.913	59,161.132	-	12,358.231	863.845	72,383.208	-	0
Working Circle Total	405,888 1/	780,785.976	967,928.300	1,748,714.276	30,848.331	305,927.399	4,205.350	2,089.695.356	20,472.994	95

1/ Does not include 17,834 Acres of nonstocked land.
2/ Volumes calculated on 6,584 stocked acres.
3/ Volumes calculated on 1,502 stocked acres.

c. Working Circle Net Volumes By Type and By Species

Table 106 M Cubic Feet 4/

Ground Type	Acres	Ponderosa Pine Blackjack	Ponderosa Pine Yellow Pine	Ponderosa Pine Subtotal	White Fir	Douglas-Fir	Limber Pine	Total Softwoods	Aspen	No. of Plots
				M Cubic Feet						
Site I										
PI-C	6,590	3,881,510	9,557.081	13,438.591	-	-	-	13,438.591	-	2
PI-V	2,507	242.276	5,590.033	5,832.309	-	-	-	5,832.309	3,067.440	1
	9,097	4,123.786	15,147.114	19,270.900	-	-	-	19,270.900	3,067.440	3
Site II										
PI-C	151,546	100,293.143	94,708.672	195,001.815	448.576	8,432.019	-	203,882.410	15.155	46
P2=C	92,880	81,551.426	-	81,551.426	8,674.992	8,901.619	2,884.853	102,012.890	-	2
PI-V	25,067	20,420.330	25,281.824	45,702.154	-	239.139	-	45,941.293	-	10
PI=V	3,957	3,113.209	7,754.810	10,868.019	180.083	77.438	-	11,125.540	-	3
MCI-C	10,778	-	-	-	8,000.186	23,776.375	-	31,776.561	776.232	1
MCI=C	1,010	674.912	127.967	802.879	419.514	1,615.075	-	2,837.468	-	1
MCI-V	5,810	2,345.439	5,219.297	7,564.736	-	9,019.328	1,112.150	17,696.214	-	2
	291,048	208,398.459	133,092.570	341,491.029	17,723.351	52,060.993	3,997.003	415,272.376	791.387	65
Site III										
PI-C	82,360	38,720.313	40,009.380	78,729.693	-	-	-	78,729.693	-	25
PI-V	5,014	2,375.834	4,989.933	7,365.767	-	-	-	7,365.767	-	2
	87,374	41,096.147	44,999.313	86,095.460	-	-	-	86,095.460	-	27
Subtotal Operable	387,519	253,618.392	193,238.997	446,857.389	17,723.351	52,060.993	3,997.003	520,638.736	3,858.827	95
Aspen	1,358	-	-	-	-	-	-	-	1,661.580	-
PX	12,429 2/	5,365.565	6,640.425	12,005.990	-	62.878	-	12,068.868	-	-
MCX	4,582 3/	606.342	1,349.291	1,955.633	-	2,331.674	287.513	4,574.820	-	-
Subtotal Inoperable	17,011	5,971.907	7,989.716	13,961.623	-	2,394.552	287.513	16,643.688	-	-
Working Circle Total	405,888 1/	259,590.299	201,228.713	460,819.012	17,723.351	54,455.545	4,284.516	537,282.424	5,520.407	95

1/ Does not include 17,834 Acres of nonstocked land.
2/ Volumes calculated on 6,584 stocked Acres.
3/ Volumes calculated on 1,502 stocked Acres.
4/ Includes seedlings and saplings.

11. Working Circle Gross Volumes by Type and by Species

a. Working Circle Gross Volumes By Type and By Species

Table 107

Scribner Rule M Board Feet

Ground Type	Acres	Ponderosa Pine Blackjack	Ponderosa Pine Yellow Pine	Ponderosa Pine Subtotal	White Fir	Douglas-Fir	Limber Pine	Total Softwoods	No. of Plots
				M Board Feet					
Site I									
PI-C	6,590	17,488,542	61,663,289	79,151,831	-	-	-	79,151,831	2
PI-V	2,507	-	39,613,107	39,613,107	-	-	-	39,613,107	1
	9,097	17,488,542	101,276,396	118,764,938				118,764,938	3
Site II									
PI-C	151,546	315,353,587	564,774,055	880,127,642	1,585,171	132,969,491	-	1,014,682,304	46
P2=C	92,880	194,356,044	-	194,356,044	-	-	-	194,356,044	2
PI-V	25,067	60,817,305	157,824,088	218,641,393	-	1,241,819	-	219,883,212	10
PI=V	3,957	9,375,004	45,702,835	55,077,839	816,685	-	-	55,894,524	3
MCI-C	10,778	-	-	-	37,924,549	89,861,575	-	127,786,124	1
MCI=C	1,010	845,471	866,176	1,711,647	534,088	2,025,151	-	4,270,886	1
MCI-V	5,810	5,962,803	30,233,497	36,196,300	-	42,291,862	3,269,868	81,758,030	2
	291,048	586,710,214	799,400,651	1,386,110,865	40,860,493	268,389,898	3,269,868	1,698,631,124	65
Site III									
PI-C	82,360	100,506,379	199,882,778	300,389,157	-	-	-	300,389,157	25
PI-V	5,014	9,616,100	24,456,537	34,072,637	-	-	-	34,072,637	2
	87,374	110,122,479	224,339,315	334,461,794	-	-	-	334,461,794	27
Subtotal Operable	387,519	714,321,235	1,125,016,362	1,839,337,597	40,860,493	268,389,898	3,269,868	2,151,857,856	95
Aspen	1,358	-	-	-	-	-	-	-	0
PX	6,584 2/	15,974,035	41,453,457	57,427,492	-	326,171	-	57,753,663	0
MCX	1,502 3/	1,541,503	7,815,957	9,357,460	-	10,933,283	845,326	21,136,069	0
Subtotal Inoperable	9,444	17,515,538	49,269,414	66,784,952	-	11,259,454	845,326	78,889,732	
Working Circle Total	396,963 1/	731,836,773	1,174,285,776	1,906,122,549	40,860,493	279,649,352	4,115,194	2,230,747,588	95

1/ Does not include 17,834 acres of nonstocked land.
2/ Volumes calculated on 6,584 stocked Acres.
3/ Volumes calculated on 1,502 stocked Acres.

b. Working Circle Gross Volumes By Type and By Species

Table 108

International $\frac{1}{4}$" Rule M Board Feet

Ground Type	Acres	Ponderosa Pine Blackjack	Ponderosa Pine Yellow Pine	Ponderosa Pine Subtotal	White Fir	Douglas-Fir	Limber Pine	Total Softwoods	No. of Plots
				M Board Feet					
Site I									
PI-C	6,590	20,111,823	70,912,749	91,024,572	-	-	-	91,024,572	2
PI-V	2,507	-	4,555,520	4,555,520	-	-	-	4,555,520	1
	9,097	20,111,823	75,468,269	95,580,092	-	-	-	95,580,092	3
Site II									
PI-C	151,546	362,658,670	649,488,270	1,012,146,940	1,823,098	152,914,460	-	1,166,884,498	46
P2=C	92,880	223,510,147	-	223,510,147	-	-	-	223,510,147	2
PI-V	25,067	69,940,439	181,497,864	251,438,303	-	1,428,067	-	252,866,370	10
PI=V	3,957	10,781,282	52,558,259	63,339,541	939,194	-	-	64,278,735	3
MCI-C	10,778	-	-	-	43,613,177	103,340,649	-	146,953,826	1
MCI=C	1,010	972,297	996,102	1,968,399	614,201	2,328,919	-	4,911,519	1
MCI-V	5,810	6,857,253	34,768,492	41,625,745	-	48,635,626	3,760,348	94,021,719	2
	291,048	674,720,088	919,308,987	1,594,029,075	46,989,670	308,647,721	3,760,348	1,953,426,814	65
Site III									
PI-C	82,360	115,582,377	229,865,113	345,447,490	-	-	-	345,447,490	25
PI-V	5,014	11,058,477	28,125,030	39,183,507	-	-	-	39,183,507	2
	87,374	126,640,854	257,990,143	384,630,997	-	-	-	384,630,997	27
Subtotal Operable	387,519	821,472,765	1,252,767,399	2,074,240,164	46,989,670	308,647,721	3,760,348	2,433,637,903	95
Aspen	1,358	-	-	-	-	-	-	-	0
PX	6,584 2/	5,372,544	7,279,534	12,652,078	-	62,811	-	12,714,889	0
MCX	1,502 3/	606,342	1,450,782	2,057,124	-	2,331,675	291,824	4,680,623	0
Subtotal Inoperable	9,444	5,978,886	8,730,316	14,709,202	-	2,394,486	291,824	17,395,512	
Working Circle Total	396,963 1/	827,451,651	1,261,497,715	2,088,949,366	46,989,670	311,042,207	4,052,172	2,451,033,415	95

1/ Does not include 17,834 acres of nonstocked land.
2/ Volumes calculated on 6,584 stocked acres.
3/ Volumes calculated on 1,502 stocked acres.

c. Working Circle Gross Volumes By Type and By Species

Table 109

M Cubic feet 4/

Ground Type	Acres	Ponderosa Pine Blackjack	Ponderosa Pine Yellow Pine	Ponderosa Pine Subtotal	White Fir	Douglas-Fir	Limber Pine	Total Softwoods	Aspen	No. of Plots
				M Cubic Feet						
Site I										
PI-C	6,590	3,901,675	10,520,408	14,422,083	-	-	-	14,422,083	-	2
PI-V	2,507	242,276	6,211,143	6,453,419	-	-	-	6,453,419	3,834,306	1
	9,097	4,143,951	16,731,551	20,875,502	-	-	-	20,875,502	3,834,306	3
Site II										
PI-C	151,546	100,520,462	103,167,970	203,688,432	448,576	8,432,019	-	212,569,027	18,186	46
P2=C	92,880	82,165,363	-	82,165,363	8,674,992	8,901,619	2,884,853	102,626,827	-	2
PI-V	25,067	20,454,672	27,715,078	48,169,750	-	239,139	-	48,408,889	-	10
PI=V	3,957	3,113,209	8,432,011	11,545,220	196,979	77,439	-	11,819,638	-	3
MCI-C	10,778	3,018	-	3,018	8,701,726	23,776,268	-	32,481,012	970,236	1
MCI=C	1,010	765,812	142,188	908,000	419,514	1,612,586	-	2,940,100	-	1
MCI-V	5,810	2,345,439	5,611,879	7,957,318	-	9,019,328	1,128,825	18,105,471	-	2
	291,048	209,367,975	145,069,126	354,437,101	18,441,787	52,058,398	4,013,678	428,950,964	988,422	65
Site III										
PI-C	82,360	38,872,273	42,948,269	81,820,542	-	-	-	81,820,542	-	25
PI-V	5,014	2,375,834	5,278,489	7,654,323	-	-	-	7,654,322	-	2
	87,374	41,248,107	48,226,758	89,474,865	-	-	-	89,474,865	-	27
Subtotal Operable	387,519	254,760,033	210,027,435	464,787,468	18,441,787	52,058,398	4,013,678	539,301,331	4,822,728	95
Aspen	1,358	-	-	-	-	-	-	-	2,076,980	0
PX	6,584 2/	18,370,282	47,671,518	66,041,800	-	375,090	-	66,416,890	-	0
MCX	1,502 3/	1,772,736	8,988,344	10,761,080	-	12,573,272	972,124	24,306,476	-	0
Subtotal Inoperable	9,444	20,143,018	56,659,862	76,802,880	-	12,948,362	972,124	90,723,366	-	
Working Circle Total	396,963 1/	274,903,051	266,687,297	541,590,348	18,441,787	65,006,760	4,985,802	630,024,697	6,899,708	95

1/ Does not include 17,834 acres of nonstocked land.
2/ Volumes calculated on 6,584 stocked Acres.
3/ Volumes calculated on 1,502 stocked acres.
4/ Includes seedlings and saplings.

E. Stand Tables

Table 110

1. Number of Stems per Acre

a. Site I - P1-C Type

Inch Diameter Class	Ponderosa Pine				
	Blackjack	Yellow Pine	Sub-Total	Total Live	Stumps
Seedlings	362.50	----------	362.50	362.50	
1	366.70	----------	366.70	366.70	
2	201.05	----------	201.05	201.05	
3	33.67	----------	33.67	33.67	
4	------	----------	------	------	
Sub-Total	963.92	----------	963.92	963.92	
5	-------	----------	-------	-------	
6	-------	----------	-------	-------	
7	-------	----------	-------	-------	
8	4.74	----------	4.74	4.74	
Sub-Total	4.74	----------	4.74	4.74	
9	-------	----------	-------	-------	
10	-------	----------	-------	-------	
Sub-Total	-------	----------	-------	-------	
11	-------	----------	-------	-------	
12	-------	----------	-------	-------	
13	2.01	----------	2.01	2.01	
14	-------	----------	-------	-------	
15	1.55	----------	1.55	1.55	
Sub-Total	3.56	----------	3.56	3.56	
16	1.41	----------	1.41	1.41	
17	-------	2.45	2.45	2.45	
18	-------	----------	--------	--------	
19	0.94	1.88	2.82	2.82	1.02
Sub-Total	2.35	4.33	6.68	6.68	1.02
20	1.81	----------	1.81	1.81	2.60
21	2.37	2.43	4.80	4.80	0.83
22	-------	2.17	2.17	2.17	------
23	-------	1.31	1.31	1.31	------
Sub-Total	4.18	5.91	10.09	10.09	3.43
24	0.64	1.84	2.48	2.48	1.27
25	-------	1.13	1.13	1.13	1.17
26	-------	------	--------	--------	1.62
27	-------	0.50	0.50	0.50	0.50
28	-------	------	--------	--------	0.47
29	--------	------	--------	--------	------
30	-------	0.40	0.40	0.40	0.81
31	-------	------	--------	--------	------
32	-------	------	--------	--------	------
33	-------	0.66	0.66	0.66	0.67
Sub-Total	0.64	4.53	5.17	5.17	6.51
Total	979.39	14.77	994.16	994.16	10.96

Number of Stems Per Acre

b. Site I - PI-V Type (Also used for Aspen Type)

Table 111

Inch Diameter Class	Ponderosa Pine			Aspen	Total Live	Stumps	Dead	Competition
	Black-jack	Yellow Pine	Sub-Total					
Seedlings	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-
2	93.54	-	93.54	-	93.54	-	-	-
3	-	-	-	-	-	-	-	-
4	107.30	-	107.30	-	107.30	-	-	-
Subtotal	200.84	-	200.84	-	200.84	-	-	-
5	21.07	-	21.07	-	21.07	-	-	-
6	-	-	-	15.40	15.40	-	-	-
7	-	-	-	-	-	-	-	-
8	9.92	-	9.92	19.41	29.33	-	-	-
Subtotal	30.99	-	30.99	34.81	65.80	-	-	-
9	-	-	-	15.96	15.96	-	-	-
10	-	-	-	12.42	12.42	-	-	-
Subtotal	-	-	-	28.38	28.38	-	-	-
11	-	-	-	11.13	11.13	-	-	-
12	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-
14	-	-	-	3.49	3.49	-	-	-
15	-	-	-	-	-	-	-	-
Subtotal	-	-	-	14.62	14.62	-	-	-
16	-	-	-	5.26	5.26	-	-	-
17	-	-	-	2.39	2.39	-	-	-
18	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-
Subtotal	-	-	-	7.65	7.65	-	-	-
20	-	-	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-
Subtotal	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-
25	-	2.19	2.19	-	2.19	-	-	-
26	-	1.06	1.06	-	1.06	-	-	-
27	-	-	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-
29	-	5.09	5.09	-	5.09	-	-	-
30	-	-	-	-	-	-	-	-
31	-	0.76	0.76	-	0.76	-	-	-
32	-	2.08	2.08	-	2.08	-	0.72	-
33	-	-	-	-	-	-	-	-
34	-	0.61	0.61	-	0.61	-	-	-
Subtotal	-	11.79	11.79	-	11.79	-	0.72	-
Total	231.83	11.79	243.62	85.46	329.08	-	0.72	53.70

Number of Stems Per Acre

c. Site II - PI - C Type

Table 112

Inch Diameter Class	Ponderosa Pine: Blackjack	Ponderosa Pine: Yellow Pine	Ponderosa Pine: Sub-Total	White Fir	Douglas-fir	All Softwoods	Aspen	Total Live	Stumps	Dead	Competition
Seedlings	389.57		389.57	0.54	3.80	393.91		393.91			
1	406.13		406.13			406.13		406.13			
2	92.01		92.01	3.92		95.93		95.93	2.35		
3	52.61		52.61	1.05		53.66		53.66			
4	22.85		22.85			22.85		22.85			
Subtotal	963.17		963.17	5.51	3.80	972.48		972.48	2.35		
5	17.42		17.42	0.51	0.46	18.39		18.39		0.55	
6	11.88		11 88		0.39	12.27		12.27			
7	9.61	0.28	9.89			9.89		9.89			
8	8.40	0.21	8.61			8.61	0.24	8.85			
Subtotal	47.31	0.49	47.80	0.51	0.85	49.16	0.24	49.40		0.55	
9	3.57	0.17	3.74			3.74	0.17	3.91			
10	5.75	0.15	5.90		0.14	6.04		6.04	0.14		
Subtotal	9.32	0.32	9.64		0.14	9.78	0.17	9.95	0.14		
11	2.91	0.36	3.27	0.12	0.12	3.51		3.51	0.12	0.11	
12	1.74	0.52	2.26			2.26	0.11	2.37	0.43	0.11	
13	1.15	0.36	1.51			1.51		1.51		0.09	
14	2.06	0.55	2.61			2.61		2.61	0.24	0.08	
15	2.06	0.33	2.39			2.39	0.07	2.46	0.28	0.14	
Subtotal	9.92	2.12	12.04	0.12	0.12	12.28	0.18	12.46	1.07	0.53	
16	1.88	1.06	2.94			2.94	0.06	3.00	0.37	0.12	
17	1.14	0.58	1.72		0.05	1.77		1.77	0.21	0.11	
18	0.84	0.66	1.50			1.50		1.50	0.39	0.05	
19	0.68	0.63	1.31			1.31		1.31	0.40	0.13	
Subtotal	4.54	2.93	7.47		0.05	7.52	0.06	7.58	1.37	0.41	
20	0.45	0.61	1.06			1.06		1.06	0.59	0.12	
21	0.38	0.45	0.83			0.83		0.83	0.32	0.04	
22	0.09	0.79	0.88		0.03	0.91		0.91	0.36		
23	0.12	0.44	0.56		0.06	0.62		0.62	0.27	0.03	
Subtotal	1.04	2.29	3.33		0.09	3.42		3.42	1.54	0.19	
24	0.13	0.32	0.45		0.03	0.48		0.48	0.47	0.13	
25	0.02	0.44	0.46		0.03	0.49		0.49	0.18	0.07	
26	0.02	0.23	0.25		0.04	0.29		0.29	0.33	0.07	
27	0.04	0.25	0.29			0.29		0.29		0.02	
28	0.02	0.26	0.28		0.02	0.30		0.30	0.08	0.04	
29		0.05	0.05			0.05		0.05	0.06	0.05	
30	0.02	0.10	0.12			0.12		0.12	0.12		
31		0.03	0.03			0.03		0.03	0.13		
32		0.05	0.05		0.02	0.07		0.07	0.03		
33		0.04	0.04			0.04		0.04	0.06		
34		0.04	0.04		0.03	0.07		0.07	0.01	0.01	
35									0.06	0.01	
36		0.02	0.02			0.02		0.02	0.06	0.01	
37									0.01		
38									0.01		
39											
40											
41											
42											
43											
44									0.02		
45					0.03	0.03		0.03			
Subtotal	0.25	1.83	2.08		0.20	2.28		2.28	1.63	0.41	
TOTAL	1,035.55	9.98	1,045.53	6.14	5.25	1,056.92	0.65	1,057.57	8.10	2.09	104.64

Number of Stems Per Acre

d. Site II - P2=C Type

Table 113

Inch Diameter Class	Black-jack PP	White Fir	Douglas-Fir	Limber Pine	Total Live	Stumps	Dead	Compe-tition
Seedlings	50.00	-	-	-	50.00	-	-	-
1	126.88	288.67	-	-	415.55	-	-	-
2	137.39	-	-	-	137.39	130.01	-	-
3	91.64	33.67	-	-	125.31	-	-	-
4	-	56.10	72.09	-	128.19	-	-	-
Subtotal	405.91	378.44	72.09	-	856.44	130.01	-	-
5	10.53	22.19	13.05	12.58	58.35	-	-	-
6	27.82	-	10.19	-	38.01	-	-	-
7	13.46	-	7.48	-	20.94	-	-	-
8	15.81	-	-	-	15.81	-	-	-
Subtotal	67.62	22.19	30.72	12.58	133.11	-	-	-
9	16.38	3.74	3.74	-	23.86	-	-	-
10	6.79	-	-	-	6.79	-	-	-
Subtotal	23.17	3.74	3.74	-	30.65	-	-	-
11	8.65	-	-	-	8.65	-	-	-
12	4.71	-	-	-	4.71	-	-	-
13	2.17	-	-	-	2.17	-	-	-
14	-	-	-	-	-	-	-	-
15	1.51	-	-	-	1.51	-	-	-
Subtotal	17.04	-	-	-	17.04	-	-	-
16	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-
18	1.09	-	-	-	1.09	-	-	-
19	0.94	-	-	-	0.94	-	-	-
Subtotal	2.03	-	-	-	2.03	-	-	-
20	-	-	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-
Subtotal	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-
26	0.51	-	-	-	0.51	-	-	-
27	-	-	-	-	-	-	-	-
28	-	-	-	-	-	0.47	-	-
29	-	-	-	-	-	-	-	-
30	0.39	-	-	-	0.39	-	-	-
31	-	-	-	-	-	-	-	-
32	-	-	-	-	-	-	-	-
33	-	-	-	-	-	-	-	-
34	-	-	-	-	-	-	-	-
35	-	-	-	-	-	0.60	-	-
36	-	-	-	-	-	-	-	-
37	-	-	-	-	-	-	-	-
38	-	-	-	-	-	0.25	-	-
39	-	-	-	-	-	-	-	-
40	-	-	-	-	-	0.46	-	-
Subtotal	0.90	-	-	-	0.90	1.78	-	-
Total	516.67	404.37	106.55	12.58	1,040.17	131.79	-	41.87

Number of Stems Per Acre

e. Site II - PI-V Type

Table 114

Inch Diameter Class	Ponderosa Pine			Douglas-Fir	Total Live	Stumps	Dead	Competition
	Black-jack	Yellow Pine	Sub-Total					
Seedlings	350.00	-	350.00	-	350.00	-	-	-
1	-	-	-	-	-	-	-	-
2	44.38	-	44.38	-	44.38	-	-	-
3	5.99	-	5.99	-	5.99	-	-	-
4	9.91	-	9.91	-	9.91	-	-	-
Subtotal	410.28	-	410.28	-	410.28	-	-	-
5	14.10	-	14.10	-	14.10	-	-	-
6	13.83	-	13.83	-	13.83	-	-	-
7	14.63	1.45	16.08	-	16.08	-	-	-
8	10.31	-	10.31	-	10.31	-	-	-
Subtotal	52.87	1.45	54.32	-	54.32	-	-	-
9	9.22	-	9.22	-	9.22	-	-	-
10	3.84	-	3.84	-	3.84	-	-	-
Subtotal	13.06	-	13.06	-	13.06	-	-	-
11	5.66	-	5.66	-	5.66	-	-	-
12	4.23	0.45	4.68	-	4.68	-	-	-
13	3.29	-	3.29	-	3.29	-	-	-
14	1.76	0.72	2.48	0.33	2.81	-	0.34	-
15	1.48	0.90	2.38	-	2.38	-	-	-
Subtotal	16.42	2.07	18.49	0.33	18.82	-	0.34	-
16	0.57	0.81	1.38	-	1.38	-	-	-
17	1.45	-	1.45	-	1.45	-	0.25	-
18	1.28	0.65	1.93	-	1.93	-	-	-
19	0.38	1.38	1.76	-	1.76	-	-	-
Subtotal	3.68	2.84	6.52	-	6.52	-	0.25	-
20	0.70	0.36	1.06	-	1.06	-	-	-
21	0.64	0.94	1.58	-	1.58	-	0.47	-
22	0.14	0.88	1.02	-	1.02	-	0.29	-
23	0.14	0.54	0.68	-	0.68	-	0.26	-
Subtotal	1.62	2.72	4.34	-	4.34	-	1.02	-
24	0.24	0.37	0.61	-	0.61	-	-	-
25	-	0.56	0.56	-	0.56	0.12	-	-
26	-	0.83	0.83	-	0.83	-	-	-
27	-	1.17	1.17	-	1.17	-	-	-
28	-	0.27	0.27	-	0.27	-	-	-
29	-	0.51	0.51	-	0.51	-	-	-
30	-	0.16	0.16	-	0.16	-	-	-
31	-	0.45	0.45	-	0.45	-	-	-
32	-	-	-	-	-	-	-	-
33	-	-	-	-	-	-	-	-
34	-	0.06	0.06	-	0.06	-	-	-
Subtotal	0.24	4.38	4.62	-	4.62	0.12	-	-
Total	498.17	13.46	511.63	0.33	511.96	0.12	1.61	97.91

Number of Stems Per Acre

f. Site II - PI=V Type

Table 115

Inch Diameter Class	Ponderosa Pine			White Fir	Douglas-Fir	Total Live	Stumps	Dead	Competition
	Black-jack	Yellow Pine	Sub-Total						
Seedlings	1,675.00	-	1,675.00	41.67	-	1,716.67	-	-	-
1	-	-	-	-	-	-	-	-	-
2	39.07	-	39.07	-	-	39.07	-	-	-
3	38.78	-	38.78	-	-	38.78	-	-	-
4	25.58	-	25.58	-	-	25.58	-	-	-
Subtotal	1,778.43	-	1,778.43	41.67	-	1,820.10	-	-	-
5	26.67	-	26.67	9.03	-	35.70	-	-	-
6	23.91	-	23.91	-	-	23.91	-	-	-
7	4.71	-	4.71	-	4.98	9.69	-	-	-
8	3.15	-	3.15	-	-	3.15	-	3.08	-
Subtotal	58.44	-	58.44	9.03	4.98	72.45	-	3.08	-
9	13.90	-	13.90	-	-	13.90	-	-	-
10	-	-	-	-	-	-	-	-	-
Subtotal	13.90	-	13.90	-	-	13.90	-	-	-
11	1.72	-	1.72	-	-	1.72	-	-	-
12	4.90	-	4.90	-	-	4.90	-	-	-
13	3.94	1.38	5.32	-	-	5.32	-	-	-
14	2.36	2.46	4.82	-	-	4.82	-	2.34	-
15	1.08	0.99	2.07	-	-	2.07	-	-	-
Subtotal	14.00	4.83	18.83	-	-	18.83	-	2.34	-
16	0.91	4.60	5.51	-	-	5.51	-	-	-
17	-	1.56	1.56	-	-	1.56	-	-	-
18	-	2.20	2.20	-	-	2.20	-	0.72	-
19	2.57	3.83	6.40	-	-	6.40	-	-	-
Subtotal	3.48	12.19	15.67	-	-	15.67	-	0.72	-
20	0.57	3.47	4.04	-	-	4.04	-	-	-
21	-	2.67	2.67	-	-	2.67	-	-	-
22	-	1.96	1.96	-	-	1.96	-	1.00	-
23	-	1.34	1.34	-	-	1.34	-	0.91	-
Subtotal	0.57	9.44	10.01	-	-	10.01	-	1.91	-
24	-	0.82	0.82	-	-	0.82	-	-	-
25	-	1.50	1.50	0.37	-	1.87	-	0.38	-
26	-	-	-	-	-	-	-	-	-
27	-	0.66	0.66	-	-	0.66	-	0.33	-
28	-	0.61	0.61	-	-	0.61	-	-	-
29	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-
32	-	0.23	0.23	-	-	0.23	-	-	-
33	-	-	-	-	-	-	-	-	-
34	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
36	-	-	-	-	-	-	-	0.18	-
Subtotal	-	3.82	3.82	0.37	-	4.19	-	0.89	-
Total	1,868.82	30.28	1,899.10	51.07	4.98	1,955.15	-	8.94	0.30

Number of Stems Per Acre

g. Site II - MCI-C Type

Table 116

Inch Diameter Class	Black-jack PP	White Fir	Douglas-Fir	All Soft Woods	Aspen	Total Live	Stumps	Dead	Compe-tition
Seedlings	275.00	25.00	-	300.00	-	300.00	-	-	-
1	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-
4	-	37.88	-	37.88	-	37.88	-	-	-
Subtotal	275.00	62.88	-	337.88	-	337.88	-	-	-
5	-	-	-	-	-	-	-	-	-
6	-	16.34	-	16.34	-	16.34	-	-	-
7	-	-	-	-	-	-	-	-	-
8	-	9.69	-	9.69	-	9.69	-	-	-
Subtotal	-	26.03	-	26.03	-	26.03	-	-	-
9	-	-	17.18	17.18	-	17.18	-	-	-
10	-	-	6.65	6.65	-	6.65	-	-	-
Subtotal	-	-	23.83	23.83	-	23.83	-	-	-
11	-	-	16.47	16.47	5.74	22.21	-	-	-
12	-	-	4.62	4.62	-	4.62	-	-	-
13	-	-	-	-	-	-	-	-	-
14	-	-	3.64	3.64	-	3.64	-	-	-
15	-	-	-	-	-	-	-	-	-
Subtotal	-	-	24.73	24.73	5.74	30.47	-	-	-
16	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-
18	-	2.05	2.17	4.22	-	4.22	-	-	-
19	-	-	-	-	-	-	-	-	-
Subtotal	-	2.05	2.17	4.22	-	4.22	-	-	-
20	-	-	3.51	3.51	-	3.51	-	-	-
21	-	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-
23	-	-	1.28	1.28	-	1.28	-	-	-
Subtotal	-	-	4.79	4.79	-	4.79	-	-	-
24	-	3.60	-	3.60	-	3.60	-	-	-
25	-	1.12	-	1.12	-	1.12	-	-	-
26	-	-	-	-	-	-	-	-	-
27	-	-	0.98	0.98	-	0.98	-	-	-
28	-	-	2.68	2.68	-	2.68	-	-	-
29	-	-	-	-	-	-	-	0.87	-
30	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	1.45	-
32	-	-	-	-	-	-	2.05	-	-
33	-	-	-	-	-	-	1.35	-	-
34	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
36	-	-	0.56	0.56	-	0.56	1.09	-	-
37	-	-	-	-	-	-	0.53	-	-
38	-	-	-	-	-	-	0.49	-	-
39	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	0.45	-	-
41	-	-	-	-	-	-	0.86	-	-
42	-	-	-	-	-	-	-	-	-
43	-	-	-	-	-	-	-	-	-
44	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
46	-	-	1.04	1.04	-	1.04	-	-	-
Subtotal	-	4.72	5.26	9.98	-	9.98	6.82	2.32	-
Total	275.00	95.68	60.78	431.46	5.74	437.20	6.82	2.32	1.35

Number of Stems Per Acre

h. Site II - MCI=C Type

Table 117

Inch Diameter Class	Ponderosa Pine			White Fir	Douglas-Fir	Total Live	Stumps	Dead	Competition
	Black-jack	Yellow Pine	Sub-Total						
Seedlings	-	-	-	75.00	25.00	100.00	-	-	-
1	-	-	-	-	8,152.72	8,152.72	-	-	-
2	108.49	-	108.49	93.54	-	202.03	-	-	-
3	120.03	-	120.03	-	48.22	168.25	-	-	-
4	-	-	-	-	76.83	76.83	-	-	-
Subtotal	228.52	-	228.52	168.54	8,302.77	8,699.83	-	-	-
5	24.24	-	24.24	-	24.24	48.48	-	-	-
6	-	-	-	18.48	19.71	38.19	-	-	-
7	25.07	-	25.07	13.39	81.96	120.42	-	-	-
8	-	-	-	20.30	30.31	50.61	-	-	-
Subtotal	49.31	-	49.31	52.17	156.22	257.70	-	-	-
9	23.39	-	23.39	8.86	7.96	40.21	-	-	-
10	14.10	-	14.10	-	13.58	27.68	-	-	-
Subtotal	37.49	-	37.49	8.86	21.54	67.89	-	-	-
11	5.95	-	5.95	-	6.06	12.01	-	-	-
12	-	-	-	4.41	4.77	9.18	-	-	-
13	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-
Subtotal	5.95	-	5.95	4.41	10.83	21.19	-	-	-
16	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-
Subtotal	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-
21	1.62	-	1.62	-	-	1.62	-	-	-
22	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	1.32	-	-
Subtotal	1.62	-	1.62	-	-	1.62	1.32	-	-
24	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-
27	-	1.01	1.01	-	-	1.01	0.95	-	-
28	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	1.74	-	-
30	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-
32	-	-	-	-	-	-	-	-	-
33	-	-	-	-	-	-	-	-	-
34	-	-	-	-	1.25	1.25	-	-	-
35	-	-	-	-	0.58	0.58	0.58	-	-
36	-	-	-	-	-	-	0.56	-	-
37	-	-	-	-	-	-	-	-	-
38	-	-	-	-	-	-	-	-	-
39	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
41	-	-	-	-	-	-	-	-	-
42	-	-	-	-	-	-	0.41	-	-
Subtotal	-	1.01	1.01	-	1.83	2.84	4.24	-	-
Total	322.89	1.01	323.90	233.98	8,493.19	9,051.07	5.56	-	41.06

Number of Stems Per Acre

i. **Site II - MCI-V Type** (Also used for MCX Type)

Table 118

Inch Diameter Class	Ponderosa Pine Black-jack	Yellow Pine	Sub-Total	Douglas-Fir	Limber Pine	Total Live	Stumps	Dead	Competition
Seedlings	375.00	-	375.00	438.00	-	813.00	-	-	-
1	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-
3	28.29	-	28.29	-	-	28.29	-	-	-
4	15.27	-	15.27	-	-	15.27	-	-	-
Subtotal	418.56	-	418.56	438.00	-	856.56	-	-	-
5	14.67	-	14.67	-	-	14.67	-	-	-
6	10.19	-	10.19	9.24	8.95	28.38	-	-	-
7	13.07	-	13.07	-	-	13.07	-	-	-
8	-	-	-	-	5.59	5.59	-	-	-
Subtotal	37.93	-	37.93	9.24	14.54	61.71	-	-	-
9	7.64	-	7.64	3.74	-	11.38	-	-	-
10	3.67	-	3.67	-	-	3.67	-	-	-
Subtotal	11.31	-	11.31	3.74	-	15.05	-	-	-
11	2.68	-	2.68	-	-	2.68	-	-	-
12	-	-	-	-	-	-	-	-	-
13	4.09	-	4.09	8.18	-	12.27	-	-	-
14	-	3.51	3.51	-	-	3.51	-	-	-
15	-	1.49	1.49	1.53	-	3.02	-	-	-
Subtotal	6.77	5.00	11.77	9.71	-	21.48	-	-	-
16	-	1.40	1.40	-	-	1.40	-	-	-
17	2.39	2.39	4.78	-	-	4.78	-	-	-
18	1.12	-	1.12	1.08	-	2.20	-	-	-
19	-	-	-	0.94	-	0.94	-	-	-
Subtotal	3.51	3.79	7.30	2.02	-	9.32	-	-	-
20	-	-	-	0.88	0.84	1.72	-	-	-
21	-	1.54	1.54	1.63	-	3.17	-	-	-
22	-	0.73	0.73	-	-	0.73	-	-	-
23	-	-	-	-	-	-	0.66	0.68	-
Subtotal	-	2.27	2.27	2.51	0.84	5.62	0.66	0.68	-
24	-	1.27	1.27	2.53	0.60	4.40	-	-	-
25	-	-	-	1.11	-	1.11	-	-	-
26	-	0.53	0.53	0.54	-	1.07	-	-	-
27	-	-	-	-	-	-	-	-	-
28	-	0.46	0.46	1.81	-	2.27	-	-	-
29	-	-	-	0.42	-	0.42	-	-	-
30	-	-	-	-	-	-	0.39	-	-
31	-	-	-	0.37	-	0.37	-	-	-
32	-	-	-	-	-	-	-	-	-
33	-	-	-	-	-	-	-	-	-
34	-	-	-	-	-	-	-	-	-
35	-	-	-	0.29	-	0.29	-	-	-
36	-	-	-	-	-	-	-	-	-
37	-	-	-	-	-	-	-	-	-
38	-	-	-	-	-	-	-	-	-
39	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
41	-	-	-	-	-	-	-	-	-
42	-	-	-	-	-	-	-	-	-
43	-	-	-	-	-	-	0.20	-	-
Subtotal	-	2.26	2.26	7.07	0.60	9.93	0.59	-	-
Total	478.08	13.32	491.40	472.29	15.98	979.67	1.25	0.68	-

Number of Stems Per Acre

j. Site III - PI-C Type

Table 119

Inch Diameter Class	Ponderosa Pine			Stumps	Dead	Competition
	Black-jack	Yellow Pine	Total Live			
Seedlings	608.00	-	608.00	-	-	-
1	746.08	-	746.08	-	-	-
2	122.17	-	122.17	-	7.33	-
3	78.80	-	78.80	-	-	-
4	47.79	-	47.79	-	-	-
Subtotal	1,602.84	-	1,602.84	-	7.33	-
5	21.63	-	21.63	-	-	-
6	14.04	-	14.04	0.81	-	-
7	4.26	0.47	4.73	1.20	-	-
8	6.20	0.45	6.65	0.46	-	-
Subtotal	46.13	0.92	47.05	2.47	-	-
9	2.97	1.01	3.98	1.09	-	-
10	4.20	1.07	5.27	0.59	-	-
Subtotal	7.17	2.08	9.25	1.68	-	-
11	2.04	1.08	3.12	0.24	-	-
12	2.29	0.95	3.24	0.59	-	-
13	1.63	0.65	2.28	0.35	0.17	-
14	2.41	1.26	3.67	0.15	0.29	-
15	1.44	1.24	2.68	0.25	0.25	-
Subtotal	9.81	5.18	14.99	1.58	0.71	-
16	0.76	1.19	1.95	0.34	-	-
17	0.98	0.29	1.27	0.10	0.19	-
18	0.95	0.69	1.64	0.63	0.09	-
19	0.23	0.70	0.93	0.32	0.08	-
Subtotal	2.92	2.87	5.79	1.39	0.36	-
20	0.28	0.63	0.91	0.22	-	-
21	0.12	0.77	0.89	0.20	-	-
22	-	0.17	0.17	0.12	0.06	-
23	0.05	0.63	0.68	0.17	0.05	-
Subtotal	0.45	2.20	2.65	0.71	0.11	-
24	-	0.30	0.30	0.35	0.05	-
25	-	0.23	0.23	0.09	0.05	-
26	-	0.08	0.08	0.08	-	-
27	-	0.04	0.04	0.12	-	-
28	-	0.07	0.07	0.15	-	-
29	-	0.03	0.03	0.07	-	-
30	-	-	-	0.06	-	-
31	-	-	-	0.03	-	-
Subtotal	-	0.75	0.75	0.95	0.10	-
Total	1,669.32	14.00	1,683.32	8.78	8.61	57.10

Number of Stems Per Acre

k. Site III - PI-V Type
Table 120

Inch Diameter Class	Ponderosa Pine Black-jack	Yellow Pine	Total Live	Stumps	Dead	Compe-tition
Seedlings	713.00	-	713.00	-	-	-
1	-	-	-	-	-	-
2	-	-	-	-	-	-
3	35.81	-	35.81	-	-	-
4	49.94	-	49.94	-	-	-
Subtotal	798.75	-	798.75	-	-	-
5	11.69	-	11.69	-	-	-
6	-	-	-	-	-	-
7	13.77	-	13.77	-	-	-
8	-	-	-	-	-	-
Subtotal	25.46	-	25.46	-	-	-
9	3.90	-	3.90	-	-	-
10	-	-	-	-	-	-
Subtotal	3.90	-	3.90	-	-	-
11	-	5.50	5.50	-	-	-
12	2.42	4.77	7.19	-	-	-
13	2.17	4.11	6.28	-	2.04	-
14	-	3.54	3.54	-	-	-
15	1.45	1.63	3.08	-	1.63	-
Subtotal	6.04	19.55	25.59	-	3.67	-
16	-	2.71	2.71	-	-	-
17	-	3.70	3.70	-	-	-
18	1.06	1.05	2.11	-	-	-
19	-	1.90	1.90	-	-	-
Subtotal	1.06	9.36	10.42	-	-	-
20	-	-	-	-	-	-
21	0.82	-	0.82	-	-	-
22	-	0.71	0.71	-	0.74	-
23	1.33	0.67	2.00	-	-	-
Subtotal	2.15	1.38	3.53	-	0.74	-
24	-	0.63	0.63	-	-	-
25	-	-	-	-	-	-
26	-	-	-	-	-	-
27	-	0.50	0.50	-	-	-
28	-	-	-	-	-	-
29	-	0.43	0.43	-	-	-
Subtotal	-	1.56	1.56	-	-	-
Total	837.36	31.85	869.21	-	4.41	538.81

2. Basal Area Per Acre

Basal Area Per Acre

a. Site I - PI-C Type

Table 121

Inch Diameter Class	Ponderosa Pine			Total Live	Stumps	Dead
	Black-jack	Yellow Pine	Sub-Total			
Seedlings	-	-	-	-	-	-
1	2.00	-	2.00	2.00	-	-
2	6.00	-	6.00	6.00	-	-
3	2.00	-	2.00	2.00	-	-
4	-	-	-	-	-	-
Subtotal	10.00	-	10.00	10.00	-	-
5	-	-	-	-	-	-
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	2.00	-	2.00	2.00	-	-
Subtotal	2.00	-	2.00	2.00	-	-
9	-	-	-	-	-	-
10	-	-	-	-	-	-
Subtotal	-	-	-	-	-	-
11	-	-	-	-	-	-
12	-	-	-	-	-	-
13	2.00	-	2.00	2.00	-	-
14	-	-	-	-	-	-
15	2.00	-	2.00	2.00	-	-
Subtotal	4.00	-	4.00	4.00	-	-
16	2.00	-	2.00	2.00	-	-
17	-	4.00	4.00	4.00	-	-
18	-	-	-	-	-	-
19	2.00	4.00	6.00	6.00	2.00	-
Subtotal	4.00	8.00	12.00	12.00	2.00	-
20	4.00	-	4.00	4.00	6.00	-
21	6.00	6.00	12.00	12.00	2.00	-
22	-	6.00	6.00	6.00	-	-
23	-	4.00	4.00	4.00	-	-
Subtotal	10.00	16.00	26.00	26.00	8.00	-
24	2.00	6.00	8.00	8.00	4.00	-
25	-	4.00	4.00	4.00	4.00	-
26	-	-	-	-	6.00	-
27	-	2.00	2.00	2.00	2.00	-
28	-	-	-	-	2.00	-
29	-	-	-	-	-	-
30	-	2.00	2.00	2.00	4.00	-
31	-	-	-	-	-	-
32	-	-	-	-	-	-
33	-	4.00	4.00	4.00	4.00	-
Subtotal	2.00	18.00	20.00	20.00	26.00	-
Total	32.00	42.00	74.00	74.00	36.00	-

Basal Area Per Acre

b. Site I - PI-V Type (Also used for Aspen Type)

Table 122

Inch Diameter Class	Ponderosa Pine Black-jack	Yellow Pine	Sub-Total	Aspen	Total Live	Stumps	Dead	Compe-tition
Seedlings	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-
2	4.00	-	4.00	-	4.00	-	-	-
3	-	-	-	-	-	-	-	-
4	12.00	-	12.00	-	12.00	-	-	-
Subtotal	16.00	-	16.00	-	16.00	-	-	-
5	4.00	-	4.00	-	4.00	-	-	-
6	-	-	-	4.00	4.00	-	-	-
7	-	-	-	-	-	-	-	-
8	4.00	-	4.00	8.00	12.00	-	-	-
Subtotal	8.00	-	8.00	12.00	20.00	-	-	-
9	-	-	-	8.00	8.00	-	-	-
10	-	-	-	8.00	8.00	-	-	-
Subtotal	-	-	-	16.00	16.00	-	-	-
11	-	-	-	8.00	8.00	-	-	-
12	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-
14	-	-	-	4.00	4.00	-	-	-
15	-	-	-	-	-	-	-	-
Subtotal	-	-	-	12.00	12.00	-	-	-
16	-	-	-	8.00	8.00	-	-	-
17	-	-	-	4.00	4.00	-	-	-
18	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-
Subtotal	-	-	-	12.00	12.00	-	-	-
20	-	-	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-
Subtotal	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-
25	-	8.00	8.00	-	8.00	-	-	-
26	-	4.00	4.00	-	4.00	-	-	-
27	-	-	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-
29	-	24.00	24.00	-	24.00	-	-	-
30	-	-	-	-	-	-	-	-
31	-	4.00	4.00	-	4.00	-	-	-
32	-	12.00	12.00	-	12.00	-	4.00	-
33	-	-	-	-	-	-	-	-
34	-	4.00	4.00	-	4.00	-	-	-
Subtotal	-	56.00	56.00	-	56.00	-	4.00	-
Total	24.00	56.00	80.00	52.00	132.00	-	4.00	12.00

Basal Area Per Acre

c. Site II - PI-C Type

Table 123

Inch Diameter Class	Ponderosa Pine			White Fir	Douglas-Fir	All Soft-Woods	Aspen	Total Live	Stumps	Dead	Competition
	Black-jack	Yellow Pine	Sub-Total								
Seedlings	-	-	-	-	-	-	-	-	-	-	-
1	3.48	-	3.48	-	-	3.48	-	3.48	-	-	-
2	2.96	-	2.96	0.17	-	3.13	-	3.13	0.09	-	-
3	3.31	-	3.41	0.09	-	3.40	-	3.40	-	-	-
4	2.44	-	2.44	-	-	2.44	-	2.44	-	-	-
Subtotal	12.19	-	12.19	0.26	-	12.45	-	12.45	0.09	-	-
5	2.78	-	2.78	0.04	0.09	2.91	-	2.91	-	0.09	-
6	2.70	-	2.70	-	0.09	2.79	-	2.79	-	-	-
7	2.87	0.09	2.96	-	-	2.96	-	2.96	-	-	-
8	3.31	0.09	3.40	-	-	3.40	0.09	3.49	-	-	-
Subtotal	11.66	0.18	11.84	0.04	0.18	12.06	0.09	12.15	-	0.09	-
9	1.74	0.09	1.83	-	-	1.83	0.09	1.92	-	-	-
10	3.39	0.09	3.48	-	0.09	3.57	-	3.57	0.09	-	-
Subtotal	5.13	0.18	5.31	-	0.09	5.40	0.09	5.49	0.09	-	-
11	2.09	0.26	2.35	0.09	0.09	2.53	-	2.53	0.09	0.09	-
12	1.48	0.44	1.92	-	-	1.92	0.09	2.01	0.35	0.09	-
13	1.13	0.35	1.48	-	-	1.48	-	1.48	-	0.09	-
14	2.35	0.61	2.96	-	-	2.96	-	2.96	0.26	0.09	-
15	2.70	0.44	3.14	-	-	3.14	0.09	3.23	0.35	0.17	-
Subtotal	9.75	2.10	11.85	0.09	0.09	12.03	0.18	12.21	1.05	0.53	-
16	2.78	1.48	4.26	-	-	4.26	0.09	4.35	0.52	0.17	-
17	1.91	0.96	2.87	-	0.09	2.96	-	2.96	0.35	0.18	-
18	1.57	1.22	2.79	-	-	2.79	-	2.79	0.70	0.09	-
19	1.39	1.31	2.70	-	-	2.70	-	2.70	0.78	0.26	-
Subtotal	7.65	4.97	12.62	-	0.09	12.71	0.09	12.80	2.35	0.70	-
20	1.04	1.39	2.43	-	-	2.43	-	2.43	1.29	0.26	-
21	0.96	1.13	2.09	-	-	2.09	-	2.09	0.78	0.09	-
22	0.26	2.18	2.44	-	0.09	2.53	-	2.53	0.96	-	-
23	0.35	1.31	1.66	-	0.17	1.83	-	1.83	0.78	0.09	-
Subtotal	2.61	6.01	8.62	-	0.26	8.88	-	8.88	3.81	0.44	-
24	0.44	1.04	1.48	-	0.09	1.57	-	1.57	1.48	0.44	-
25	0.09	1.57	1.66	-	0.09	1.75	-	1.75	0.61	0.26	-
26	0.09	0.87	0.96	-	0.17	1.13	-	1.13	1.22	0.26	-
27	0.17	1.04	1.21	-	-	1.21	-	1.21	-	0.09	-
28	0.09	1.13	1.22	-	0.09	1.31	-	1.31	0.35	0.17	-
29	-	0.26	0.26	-	-	0.26	-	0.26	0.26	0.26	-
30	0.09	0.52	0.61	-	-	0.61	-	0.61	0.61	-	-
31	-	0.17	0.17	-	-	0.17	-	0.17	0.70	-	-
32	-	0.26	0.26	-	0.09	0.35	-	0.35	0.17	-	-
33	-	0.26	0.26	-	-	0.26	-	0.26	0.35	-	-
34	-	0.26	0.26	-	0.17	0.43	-	0.43	0.09	0.09	-
35	-	-	-	-	-	-	-	-	0.44	0.09	-
36	-	0.17	0.17	-	-	0.17	-	0.17	0.44	0.09	-
37	-	-	-	-	-	-	-	-	0.09	-	-
38	-	-	-	-	-	-	-	-	0.09	-	-
39	-	-	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-	-	-
41	-	-	-	-	-	-	-	-	-	-	-
42	-	-	-	-	-	-	-	-	-	-	-
43	-	-	-	-	-	-	-	-	-	-	-
44	-	-	-	-	-	-	-	-	0.26	-	-
45	-	-	-	-	0.35	0.35	-	0.35	-	-	-
Subtotal	0.97	7.55	8.52	-	1.05	9.57	-	9.57	7.16	1.75	-
Total	49.96	20.99	70.95	0.39	1.76	73.10	0.45	73.55	14.55	3.51	11.05

Basal Area Per Acre

d. Site II - P2=C Type

Table 124

Inch Diameter Class	Black-jack PP	White Fir	Douglas-Fir	Limber Pine	Total Live	Stumps	Dead	Compe-tition
Seedlings	-	-	-	-	-	-	-	-
1	2.00	4.00	-	-	6.00	-	-	-
2	4.00	-	-	-	4.00	4.00	-	-
3	6.00	2.00	-	-	8.00	-	-	-
4	-	6.00	8.00	-	14.00	-	-	-
Subtotal	12.00	12.00	8.00	-	32.00	4.00	-	-
5	2.00	4.00	2.00	2.00	10.00	-	-	-
6	6.00	-	2.00	-	8.00	-	-	-
7	4.00	-	2.00	-	6.00	-	-	-
8	6.00	-	-	-	6.00	-	-	-
Subtotal	18.00	4.00	6.00	2.00	30.00	-	-	-
9	8.00	2.00	2.00	-	12.00	-	-	-
10	4.00	-	-	-	4.00	-	-	-
Subtotal	12.00	2.00	2.00	-	16.00	-	-	-
11	6.00	-	-	-	6.00	-	-	-
12	4.00	-	-	-	4.00	-	-	-
13	2.00	-	-	-	2.00	-	-	-
14	-	-	-	-	-	-	-	-
15	2.00	-	-	-	2.00	-	-	-
Subtotal	14.00	-	-	-	14.00	-	-	-
16	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-
18	2.00	-	-	-	2.00	-	-	-
19	2.00	-	-	-	2.00	-	-	-
Subtotal	4.00	-	-	-	4.00	-	-	-
20	-	-	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-
Subtotal	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-
26	2.00	-	-	-	2.00	-	-	-
27	-	-	-	-	-	-	-	-
28	-	-	-	-	-	2.00	-	-
29	-	-	-	-	-	-	-	-
30	2.00	-	-	-	2.00	-	-	-
31	-	-	-	-	-	-	-	-
32	-	-	-	-	-	-	-	-
33	-	-	-	-	-	-	-	-
34	-	-	-	-	-	-	-	-
35	-	-	-	-	-	4.00	-	-
36	-	-	-	-	-	-	-	-
37	-	-	-	-	-	-	-	-
38	-	-	-	-	-	2.00	-	-
39	-	-	-	-	-	-	-	-
40	-	-	-	-	-	4.00	-	-
Subtotal	4.00	-	-	-	4.00	12.00	-	-
Total	64.00	18.00	16.00	2.00	100.00	16.00	-	10.00

Basal Area Per Acre

e. Site II - PI-V Type (Also used for PX Type)

Table 125

Inch Diameter Class	Ponderosa Pine			Douglas-Fir	Total Live	Stumps	Dead	Competition
	Black-jack	Yellow Pine	Sub-Total					
Seedlings	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-
2	1.60	-	1.60	-	1.60	-	-	-
3	0.40	-	0.40	-	0.40	-	-	-
4	1.20	-	1.20	-	1.20	-	-	-
Subtotal	3.20	-	3.20	-	3.20	-	-	-
5	2.40	-	2.40	-	2.40	-	-	-
6	3.20	-	3.20	-	3.20	-	-	-
7	4.40	0.40	4.80	-	4.80	-	-	-
8	4.00	-	4.00	-	4.00	-	-	-
Subtotal	14.00	0.40	14.40	-	14.40	-	-	-
9	4.40	-	4.40	-	4.40	-	-	-
10	2.40	-	2.40	-	2.40	-	-	-
Subtotal	6.80	-	6.80	-	6.80	-	-	-
11	4.00	-	4.00	-	4.00	-	-	-
12	3.60	0.40	4.00	-	4.00	-	-	-
13	3.20	-	3.20	-	3.20	-	-	-
14	2.00	0.80	2.80	0.40	3.20	-	0.40	-
15	2.00	1.20	3.20	-	3.20	-	-	-
Subtotal	14.80	2.40	17.20	0.40	17.60	-	0.40	-
16	0.80	1.20	2.00	-	2.00	-	-	-
17	2.40	-	2.40	-	2.40	-	0.40	-
18	2.40	1.20	3.60	-	3.60	-	-	-
19	0.80	2.80	3.60	-	3.60	-	-	-
Subtotal	6.40	5.20	11.60	-	11.60	-	0.40	-
20	1.60	0.80	2.40	-	2.40	-	-	-
21	1.60	2.40	4.00	-	4.00	-	1.20	-
22	0.40	2.40	2.80	-	2.80	-	0.80	-
23	0.40	1.60	2.00	-	2.00	-	0.80	-
Subtotal	4.00	7.20	11.20	-	11.20	-	2.80	-
24	0.80	1.20	2.00	-	2.00	-	-	-
25	-	2.00	2.00	-	2.00	0.40	-	-
26	-	3.20	3.20	-	3.20	-	-	-
27	-	4.80	4.80	-	4.80	-	-	-
28	-	1.20	1.20	-	1.20	-	-	-
29	-	2.40	2.40	-	2.40	-	-	-
30	-	0.80	0.80	-	0.80	-	-	-
31	-	2.40	2.40	-	2.40	-	-	-
32	-	-	-	-	-	-	-	-
33	-	-	-	-	-	-	-	-
34	-	0.40	0.40	-	0.40	-	-	-
Subtotal	0.80	18.40	19.20	-	19.20	0.40	-	-
Total	50.00	33.60	83.60	0.40	84.00	0.40	3.60	14.40

Basal Area Per Acre

f. Site II - PI=V Type

Table 126

Inch Diameter Class	Ponderosa Pine Black-jack	Ponderosa Pine Yellow Pine	Ponderosa Pine Sub-Total	White Fir	Douglas-Fir	Total Live	Stumps	Dead	Compe-tition
Seedlings	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	-
2	1.33	-	1.33	-	-	1.33	-	-	-
3	2.66	-	2.66	-	-	2.66	-	-	-
4	2.66	-	2.66	-	-	2.66	-	-	-
Subtotal	6.65	-	6.65	-	-	6.65	-	-	-
5	3.99	-	3.99	1.33	-	5.32	-	-	-
6	5.32	-	5.32	-	-	5.32	-	-	-
7	1.33	-	1.33	-	1.33	2.66	-	-	-
8	1.33	-	1.33	-	-	1.33	-	1.33	-
Subtotal	11.97	-	11.97	1.33	1.33	14.63	-	1.33	-
9	6.65	-	6.65	-	-	6.65	-	-	-
10	-	-	-	-	-	-	-	-	-
Subtotal	6.65	-	6.65	-	-	6.65	-	-	-
11	1.33	-	1.33	-	-	1.33	-	-	-
12	3.99	-	3.99	-	-	3.99	-	-	-
13	3.99	1.33	5.32	-	-	5.32	-	-	-
14	2.66	2.66	5.32	-	-	5.32	-	2.66	-
15	1.33	1.33	2.66	-	-	2.66	-	-	-
Subtotal	13.30	5.32	18.62	-	-	18.62	-	2.66	-
16	1.33	6.65	7.98	-	-	7.98	-	-	-
17	-	2.66	2.66	-	-	2.66	-	-	-
18	-	3.99	3.99	-	-	3.99	-	1.33	-
19	5.32	7.98	13.30	-	-	13.30	-	-	-
Subtotal	6.65	21.28	27.93	-	-	27.93	-	1.33	-
20	1.33	7.98	9.31	-	-	9.31	-	-	-
21	-	6.65	6.65	-	-	6.65	-	-	-
22	-	5.32	5.32	-	-	5.32	-	2.66	-
23	-	3.99	3.99	-	-	3.99	-	2.66	-
Subtotal	1.33	23.94	25.27	-	-	25.27	-	5.32	-
24	-	2.66	2.66	-	-	2.66	-	-	-
25	-	5.32	5.32	1.33	-	6.65	-	1.33	-
26	-	-	-	-	-	-	-	-	-
27	-	2.66	2.66	-	-	2.66	-	1.33	-
28	-	2.66	2.66	-	-	2.66	-	-	-
29	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-
32	-	1.33	1.33	-	-	1.33	-	-	-
33	-	-	-	-	-	-	-	-	-
34	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
36	-	-	-	-	-	-	-	1.33	-
Subtotal	-	14.63	14.63	1.33	-	15.96	-	3.99	-
Total	46.55	65.17	111.72	2.66	1.33	115.71	-	14.63	1.33

Basal Area Per Acre

g. Site II - MCI-C Type

Table 127

Inch Diameter Class	Black-jack PP	White Fir	Douglas-Fir	All Soft Woods	Aspen	Total Live	Stumps	Dead	Compe-tition
Seedlings	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-
4	-	4.00	-	4.00	-	4.00	-	-	-
Subtotal	-	4.00	-	4.00	-	4.00	-	-	-
5	-	-	-	-	-	-	-	-	-
6	-	4.00	-	4.00	-	4.00	-	-	-
7	-	-	-	-	-	-	-	-	-
8	-	4.00	-	4.00	-	4.00	-	-	-
Subtotal	-	8.00	-	8.00	-	8.00	-	-	-
9	-	-	8.00	8.00	-	8.00	-	-	-
10	-	-	4.00	4.00	-	4.00	-	-	-
Subtotal	-	-	12.00	12.00	-	12.00	-	-	-
11	-	-	12.00	12.00	4.00	16.00	-	-	-
12	-	-	4.00	4.00	-	4.00	-	-	-
13	-	-	-	-	-	-	-	-	-
14	-	-	4.00	4.00	-	4.00	-	-	-
15	-	-	-	-	-	-	-	-	-
Subtotal	-	-	20.00	20.00	4.00	24.00	-	-	-
16	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-
18	-	4.00	4.00	8.00	-	8.00	-	-	-
19	-	-	-	-	-	-	-	-	-
Subtotal	-	4.00	4.00	8.00	-	8.00	-	-	-
20	-	-	8.00	8.00	-	8.00	-	-	-
21	-	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-
23	-	-	4.00	4.00	-	4.00	-	-	-
Subtotal	-	-	12.00	12.00	-	12.00	-	-	-
24	-	12.00	-	12.00	-	12.00	-	-	-
25	-	4.00	-	4.00	-	4.00	-	-	-
26	-	-	-	-	-	-	-	-	-
27	-	-	4.00	4.00	-	4.00	-	-	-
28	-	-	12.00	12.00	-	12.00	-	-	-
29	-	-	-	-	-	-	-	4.00	-
30	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	8.00	-
32	-	-	-	-	-	-	12.00	-	-
33	-	-	-	-	-	-	8.00	-	-
34	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
36	-	-	4.00	4.00	-	4.00	8.00	-	-
37	-	-	-	-	-	-	4.00	-	-
38	-	-	-	-	-	-	4.00	-	-
39	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	4.00	-	-
41	-	-	-	-	-	-	8.00	-	-
42	-	-	-	-	-	-	-	-	-
43	-	-	-	-	-	-	-	-	-
44	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
46	-	-	12.00	12.00	-	12.00	-	-	-
Subtotal	-	16.00	32.00	48.00	-	48.00	48.00	12.00	-
Total	-	32.00	80.00	112.00	4.00	116.00	48.00	12.00	4.00

Basal Area Per Acre

h. Site II - MCI=C Type

Table 128

Inch Diameter Class	Ponderosa Pine Black-jack	Ponderosa Pine Yellow Pine	Ponderosa Pine Sub-Total	White Fir	Douglas-Fir	Total Live	Stumps	Dead	Compe-tition
Seedlings	-	-	-	-	-	-	-	-	-
1	-	-	-	-	4.00	4.00	-	-	-
2	4.00	-	4.00	4.00	-	8.00	-	-	-
3	8.00	-	8.00	-	4.00	12.00	-	-	-
4	-	-	-	-	8.00	8.00	-	-	-
Subtotal	12.00	-	12.00	4.00	16.00	32.00	-	-	-
5	4.00	-	4.00	-	4.00	8.00	-	-	-
6	-	-	-	4.00	4.00	8.00	-	-	-
7	8.00	-	8.00	4.00	24.00	36.00	-	-	-
8	-	-	-	8.00	12.00	20.00	-	-	-
Subtotal	12.00	-	12.00	16.00	44.00	72.00	-	-	-
9	12.00	-	12.00	4.00	4.00	20.00	-	-	-
10	8.00	-	8.00	-	8.00	16.00	-	-	-
Subtotal	20.00	-	20.00	4.00	12.00	36.00	-	-	-
11	4.00	-	4.00	-	4.00	8.00	-	-	-
12	-	-	-	4.00	4.00	8.00	-	-	-
13	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-
Subtotal	4.00	-	4.00	4.00	8.00	16.00	-	-	-
16	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-
Subtotal	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-
21	4.00	-	4.00	-	-	4.00	-	-	-
22	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	4.00	-	-
Subtotal	4.00	-	4.00	-	-	4.00	4.00	-	-
24	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-
27	-	4.00	4.00	-	-	4.00	4.00	-	-
28	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	8.00	-	-
30	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-
32	-	-	-	-	-	-	-	-	-
33	-	-	-	-	-	-	-	-	-
34	-	-	-	-	8.00	8.00	-	-	-
35	-	-	-	-	4.00	4.00	4.00	-	-
36	-	-	-	-	-	-	4.00	-	-
37	-	-	-	-	-	-	-	-	-
38	-	-	-	-	-	-	-	-	-
39	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
41	-	-	-	-	-	-	-	-	-
42	-	-	-	-	-	-	4.00	-	-
Subtotal	-	4.00	4.00	-	12.00	16.00	24.00	-	-
Total	52.00	4.00	56.00	28.00	92.00	176.00	28.00	-	16.00

Basal Area Per Acre

i. Site II - MCI-V Type (Also used for MCX Type)

Table 129

Inch Diameter Class	Ponderosa Pine			Douglas-Fir	Limber Pine	Total Live	Stumps	Dead	Competition
	Black-jack	Yellow Pine	Sub-Total						
Seedlings	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-
3	2.00	-	2.00	-	-	2.00	-	-	-
4	2.00	-	2.00	-	-	2.00	-	-	-
Subtotal	4.00	-	4.00	-	-	4.00	-	-	-
5	2.00	-	2.00	-	-	2.00	-	-	-
6	2.00	-	2.00	2.00	2.00	6.00	-	-	-
7	4.00	-	4.00	-	-	4.00	-	-	-
8	-	-	-	-	2.00	2.00	-	-	-
Subtotal	8.00	-	8.00	2.00	4.00	14.00	-	-	-
9	4.00	-	4.00	2.00	-	6.00	-	-	-
10	2.00	-	2.00	-	-	2.00	-	-	-
Subtotal	6.00	-	6.00	2.00	-	8.00	-	-	-
11	2.00	-	2.00	-	-	2.00	-	-	-
12	-	-	-	-	-	-	-	-	-
13	4.00	-	4.00	8.00	-	12.00	-	-	-
14	-	4.00	4.00	-	-	4.00	-	-	-
15	-	2.00	2.00	2.00	-	4.00	-	-	-
Subtotal	6.00	6.00	12.00	10.00	-	22.00	-	-	-
16	-	2.00	2.00	-	-	2.00	-	-	-
17	4.00	4.00	8.00	-	-	8.00	-	-	-
18	2.00	-	2.00	2.00	-	4.00	-	-	-
19	-	-	-	2.00	-	2.00	-	-	-
Subtotal	6.00	6.00	12.00	4.00	-	16.00	-	-	-
20	-	-	-	2.00	2.00	4.00	-	-	-
21	-	4.00	4.00	4.00	-	8.00	-	-	-
22	-	2.00	2.00	-	-	2.00	-	-	-
23	-	-	-	-	-	-	2.00	2.00	-
Subtotal	-	6.00	6.00	6.00	2.00	14.00	2.00	2.00	-
24	-	4.00	4.00	8.00	2.00	14.00	-	-	-
25	-	-	-	4.00	-	4.00	-	-	-
26	-	2.00	2.00	2.00	-	4.00	-	-	-
27	-	-	-	-	-	-	-	-	-
28	-	2.00	2.00	8.00	-	10.00	-	-	-
29	-	-	-	2.00	-	2.00	-	-	-
30	-	-	-	-	-	-	2.00	-	-
31	-	-	-	2.00	-	2.00	-	-	-
32	-	-	-	-	-	-	-	-	-
33	-	-	-	-	-	-	-	-	-
34	-	-	-	-	-	-	-	-	-
35	-	-	-	2.00	-	2.00	-	-	-
36	-	-	-	-	-	-	-	-	-
37	-	-	-	-	-	-	-	-	-
38	-	-	-	-	-	-	-	-	-
39	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
41	-	-	-	-	-	-	-	-	-
42	-	-	-	-	-	-	-	-	-
43	-	-	-	-	-	-	2.00	-	-
Subtotal	-	8.00	8.00	28.00	2.00	38.00	4.00	-	-
Total	30.00	26.00	56.00	52.00	8.00	116.00	6.00	2.00	-

Basal Area Per Acre

j. Site III - PI-C Type

Table 130

Inch Diameter Class	Ponderosa Pine			Stumps	Dead	Competition
	Black-jack	Yellow Pine	Total Live			
Seedlings	-	-	-	-	-	-
1	5.12	-	5.12	-	-	-
2	3.68	-	3.68	-	0.16	-
3	5.12	-	5.12	-	-	-
4	5.12	-	5.12	-	-	-
Subtotal	19.04	-	19.04	-	0.16	-
5	3.52	-	3.52	-	-	-
6	3.20	-	3.20	0.16	-	-
7	1.28	0.16	1.44	0.32	-	-
8	2.40	0.16	2.56	0.16	-	-
Subtotal	10.40	0.32	10.72	0.64	-	-
9	1.44	0.48	1.92	0.48	-	-
10	2.56	0.64	3.20	0.32	-	-
Subtotal	4.00	1.12	5.12	0.80	-	-
11	1.44	0.80	2.24	0.16	-	-
12	1.92	0.80	2.72	0.48	-	-
13	1.60	0.48	2.08	0.32	0.16	-
14	2.72	1.44	4.16	0.16	0.32	-
15	2.88	1.60	4.48	0.32	0.32	-
Subtotal	10.56	5.12	15.68	1.44	0.80	-
16	1.12	1.76	2.88	0.48	-	-
17	1.60	0.48	2.08	0.16	0.32	-
18	1.76	1.28	3.04	1.12	0.16	-
19	0.64	1.44	2.08	0.64	0.16	-
Subtotal	5.12	4.96	10.08	2.40	0.64	-
20	0.64	1.44	2.08	0.48	-	-
21	0.32	1.92	2.24	0.48	-	-
22	-	0.48	0.48	0.32	0.16	-
23	0.16	1.92	2.08	0.48	0.16	-
Subtotal	1.12	5.76	6.88	1.76	0.32	-
24	-	0.96	0.96	1.12	0.16	-
25	-	0.80	0.80	0.32	0.16	-
26	-	0.32	0.32	0.32	-	-
27	-	0.16	0.16	0.48	-	-
28	-	0.32	0.32	0.64	-	-
29	-	0.16	0.16	0.32	-	-
30	-	-	-	0.32	-	-
31	-	-	-	0.16	-	-
Subtotal	-	2.72	2.72	3.68	0.32	-
Total	50.24	20.00	70.24	10.72	2.24	23.20

Basal Area Per Acre

k. Site III - PI-V Type

Table 131

Inch Diameter Class	Ponderosa Pine			Stumps	Dead	Competition
	Blackjack	Yellow Pine	Total Live			
Seedlings	-	-	-	-	-	-
1	-	-	-	-	-	-
2	-	-	-	-	-	-
3	2.00	-	2.00	-	-	-
4	6.00	-	6.00	-	-	-
Subtotal	8.00	-	8.00	-	-	-
5	2.00	-	2.00	-	-	-
6	-	-	-	-	-	-
7	4.00	-	4.00	-	-	-
8	-	-	-	-	-	-
Subtotal	6.00	-	6.00	-	-	-
9	2.00	-	2.00	-	-	-
10	-	-	-	-	-	-
Subtotal	2.00	-	2.00	-	-	-
11	-	4.00	4.00	-	-	-
12	2.00	4.00	6.00	-	-	-
13	2.00	4.00	6.00	-	2.00	-
14	-	4.00	4.00	-	-	-
15	2.00	2.00	4.00	-	2.00	-
Subtotal	6.00	18.00	24.00	-	4.00	-
16	-	4.00	4.00	-	-	-
17	-	6.00	6.00	-	-	-
18	2.00	2.00	4.00	-	-	-
19	-	4.00	4.00	-	-	-
Subtotal	2.00	16.00	18.00	-	-	-
20	-	-	-	-	-	-
21	2.00	-	2.00	-	-	-
22	-	2.00	2.00	-	2.00	-
23	4.00	2.00	6.00	-	-	-
Subtotal	6.00	4.00	10.00	-	2.00	-
24	-	2.00	2.00	-	-	-
25	-	-	-	-	-	-
26	-	-	-	-	-	-
27	-	2.00	2.00	-	-	-
28	-	-	-	-	-	-
29	-	2.00	2.00	-	-	-
Subtotal	-	6.00	6.00	-	-	-
Total	30.00	44.00	74.00	-	6.00	52.00

F. Records and Miscellaneous Tables

1. VOLUMES CUT AND AREA CUT OVER F.Y. 1961 THROUGH F.Y. 1965

Table 132

	Sawtimber		Pulpwood		Total
Fiscal Year	Area Cut	M Bd. Ft.	Acres Cut	Cords	M Bd. Ft.
1961	17,300	48,074	-	-	48,074
1962	14,700	37,028	18,700	27,163	50,610
1963	17,100	54,126	14,400	52,913	80,582
1964	23,300	60,556	14,700	27,392	74,252
1965	13,300	69,714	30,400	44,845	92,136
TOTAL	85,700	269,498	78,200	152,313	345,654 2/
Average	17,140	53,900	19,550 1/	38,078 1/	72,939 2/

Annual allowable cut in M Bd. Ft

56,200 Sawlogs

18,860 Pulpwood (37,700 cds)

75,060 Total

1/ Average based on 4 years as cutting did not start until 1962

2/ MBM for pulpwood based on 500 board feet per cord

2. ACTUAL VOLUME CUT ON SITGREAVES NATIONAL FOREST BY CALENDAR YEARS FOR THE PERIOD 1926 THROUGH 1965

Table 133

C.Y.	Volume Cut Net MBF	C.Y.	Volume Cut Net MBF
1926	1,803	1946	43,397
1927	22,607	1947	40,178
1928	21,776	1948	39,788
1929	72,861	1949	33,183
1930	43,715	1950	56,967
1931	43,673	1951	58,691
1932	34,754	1952	42,538
1933	34,066	1953	52,622
1934	957	1954	57,148
1935	31,223	1955	58,810
1936	42,965	1956 (Dudley Fire)	72,197
1937	30,115	1957	52,270
1938	16,345	1958	41,179.38
1939	20,484	1959	60,159.31
1940	18,720	1960	44,965.64
1941	24,470	1961	38,948.72
1942	12,964	1962	76,441.86 1/
1943	20,270	1963	68,036.74 1/
1944	35,709	1964	93,542.34 1/
1945	29,410	1965	73,565.06 1/

1/ Includes Pulpwood and Sawlog Volume

3. PRUNING AND THINNING ACCOMPLISHMENTS

BY YEAR THROUGH JUNE 30, 1966, BY ACRES

TABLE 134

Year	Chevelon Block		Heber Block		Pinedale Block		Lakeside Block		Totals Working Circle	
	Pruning	Thinning	Pruning	Thinning	Pruning	Thinning	Pruning	Thinning	Pruning	Thinning
Prior to 1947	451						3,500		3,951	
1947	144						-		144	
1948	278		412		200		-		890	
1949	1,246		950		-		410		2,606	
1950	2,200		3,762		1,200		300		7,462	
1951	1,509		4,710		1,315		200		7,734	
1952	2,410		3,263		1,020		210		6,903	
1953	750		3,677		1,135		177		5,739	
1954	7,038		5,757		1,633		563		14,991	
1955	2,291		4,166		-		430		6,887	
1956	6,312		5,421		4,689		25		16,447	
1957	5,566		11,249		-	600 1/	370		17,185	600
1958	105	5,818 1/	8,175		-	294 1/	180		8,460	6,112
1959	1,094	2,829 1/	6,395		-	-	240		7,729	2,829
1960	4,095	1,190 1/	5,300		-	431	1,250		10,645	1,621
1961	-	118	7,563		-	21	-		7,563	139
1962	-	1,310	2,550	2,355	-	534	-	40	2,550	4,239
1963	-	1,254	-	1,621	-	1,289	-	50		4,214
1964	-	1,281	-	1,434	-	521	-	181		3,417
1965	-	1,502	-	1,587	-	-	-	340 2/		3,429
1966	-	300	-	2,902	-	600 2/	-	808 2/		4,610
TOTALS	35,489	15,602	73,350	9,899	11,192	4,290	7,855	1,419	127,886	31,210

1/ Crop tree thinning

2/ Estimated acres completed on existing contracts.

4. PLANTING, SEEDING and SITE PREPARATION ACCOMPLISHMENTS BY YEAR THROUGH JUNE 30, 1966, by ACRES 1/

Table 135a

Year	CHEVELON BLOCK Planting	Survival	Seeding	Survival	Site Preparation
		2/			
1957	-	-	-	-	-
1958	-	-	-	-	-
1959	-	-	-	-	-
1960	-	-	-	-	-
1961	12	59%	-	-	-
1962	69	70%	-	-	-
1963	88	74%	-	-	-
1964	68	77%	-	-	-
1965	1500	88%	-	-	-
1966	496	-	-	-	-
TOTALS	2233				

1/ Site preparation is listed for natural regeneration areas only.
2/ Survival based on 1965 fall measurement.

PLANTING, SEEDING and SITE PREPARATION ACCOMPLISHMENTS BY YEAR THROUGH JUNE 30, 1966, by ACRES 1/

Table 135b

Year	HEBER BLOCK Planting	Survival	Seeding	Survival	Site Preparation
		2/			
1957	-	-	-	-	-
1958	-	-	-	-	-
1959	-	-	-	-	-
1960	-	-	-	-	-
1961	-	-	-	-	-
1962	-	-	-	-	-
1963	-	-	-	-	-
1964	-	-	-	-	-
1965	-	-	-	-	-
1966	-	-	-	-	-

1/ Site preparation is listed for natural regeneration areas only
2/ Survival based on 1965 fall measurement.

PLANTING, SEEDING and SITE PREPARATION ACCOMPLISHMENTS BY YEAR THROUGH JUNE 30, 1966, by ACRES 1/

Table 135c

Year	PINEDALE BLOCK Planting	Survival 2/	Seeding	Survival	Site Preparation
1957	-	-	-	-	-
1958	-	-	-	-	-
1959	-	-	-	-	-
1960	-	-	-	-	-
1961	-	-	-	-	-
1962	-	-	-	-	-
1963	-	-	-	-	-
1964	-	-	-	-	-
1965	-	-	-	-	-
1966	-	-	-	-	-

1/ Site preparation is listed for natural regeneration areas only.
2/ Survival based on 1965 fall measurement.

PLANTING, SEEDING and SITE PREPARATION ACCOMPLISHMENTS BY YEAR THROUGH JUNE 30, 1966, by ACRES 1/

Table 135d

Year	LAKESIDE BLOCK Planting	Survival 2/	Seeding	Survival	Site Preparation
1957	25	10%	-	-	-
1958	-	-	-	-	-
1959	-	-	-	-	-
1960	-	-	-	-	-
1961	-	-	-	-	-
1962	-	-	-	-	-
1963	-	-	4	2%	-
1964	-	-	105	1%	-
1965	-	-	-	-	-
1966	540	-	-	-	-
TOTALS	565		109		

1/ Site preparation is listed for natural regeneration areas only.
2/ Survival based on 1965 fall measurement.

PLANTING, SEEDING and SITE PREPARATION ACCOMPLISHMENTS BY YEAR THROUGH JUNE 30, 1966, by ACRES 1/

Table 135e

Year	WORKING CIRCLE TOTALS		
	Planting	Seeding	Site Preparation
1957	25	-	-
1958	-	-	-
1959	-	-	-
1960	-	-	-
1961	12	-	-
1962	69	-	-
1963	88	4	-
1964	68	105	-
1965	1500	-	-
1966	1036	-	-
TOTALS	2798	109	-

1/ Site preparation is listed for natural regeneration areas only.

5. Fire Occurance on the Sitgreaves Working Circle

For the Period 1949 through 1965

Table 136

Man Caused Objective - 19 Acre Acreage Burn Objective 190 + 200 = 390

Year	Total all Classes	NUMBER OF FIRES Class A & B	Class C and Over	Extra Period A & B	Extra Period C,D,E	Man Caused	Acres Burned	Law Enforcement
1949	199	194	5	-	-	22	403	
1950	200	197	3	-	-	39	281	
1951	280	279	1	-	-	29	176	
1952	130	125	5	-	-	21	99	
1953	219	213	6	-	-	29	271	
1954	218	208	10	4	3	36	1393	
1955	100	94	6	-	1	26	2044	
1956	217	214	3	6	1	31	21555	
1957	138	137	1	7	-	5	53	
1958	195	194	1	3	-	15	90	
1959	217	215	2	1	-	20	858	
1960	296	295	1	-	-	29	56	
1961	257	254	3	1	1	16	154	
1962	248	247	1	9	0	38	291	
1963	145	142	3	-	-	33	366	
1964	129	128	1	-	-	20	136	
1965	113	109	4	1	1	34	239	
Totals	3,301	3,245	56	32	7	443	28,474	

6. Defect Factors Used to Derive Net Volumes

Table 137

Descriptive Term	Diameter Range	Ponderosa Pine				Douglas-Fir		White-Fir		Limber Pine	
		Black Jack		Yellow Pine							
		Bd. Ft.	Cu. Ft.	Bd. Ft.	Cu. Ft.	Bd. Ft.	Cu. Ft.	Bd. Ft.	Cu. Ft.	Bd. Ft.	Cu. Ft.
Seedlings	No DBH	-	1.00	-	-	-	1.00	-	1.00	-	1.00
Saplings	0.1" to 4.9"	-	1.00	-	-	-	1.00	-	1.00	-	1.00
Small Poles	5.0" to 8.9"	-	1.00	-	-	-	1.00	-	1.00	-	1.00
Large Poles	9.0" to 10.9"	-	1.00	-	-	-	1.00	-	1.00	-	1.00
Small Sawtimber	11.0" to 15.9"	.97	1.00	.80	1.00	.98	1.00	.85	1.00	.97	1.00
Medium Sawtimber	16.0" to 19.9"	.92	1.00	.75	.95	.95	1.00	.80	.95	.92	1.00
Large Sawtimber	20.0" to 23.9"	.92	1.00	.70	.90	.95	1.00	.70	.90	.92	1.00
Oversize Sawtimber	24.0" and over	.85	.95	.70	.90	.95	1.00	.60	.90	.85	.95

Aspen Defect - .80 for all diameters

7. Determination of Administrative Group Acreage (As of December 31, 1964)

a. Summary of Determination of Administrative Working Group Acreage 3/ 4/

Table 138

Area Classification	Chevelon Block	Heber Block	Lakeside Block	Pinedale Block	Forest Totals
		Acres			
Developed Recreation Sites and Areas	100	-	1,510	-	1,610
Potential Recreation Development Sites and Areas	1,829	100	1,494	440	3,863
Buffer Zones around Developed and Potential Recreation Sites and Areas	3,223	200	3,133	566	7,122
Landscape Areas 1/	4,966	21,621	50	406	27,043
Roadside, Trailside, Streamside and Waterfront Zones	2,704	2,888	1,349	1,171	8,112
Administrative Sites	1,011	380	700	660	2,751
Special Natural Areas (Not formally designated) 2/	6,570	76	-	-	6,646
TOTALS	20,403	25,265	8,236	3,243	57,147

1/ 1,024 acres are inaccessible
2/ 6,470 acres are inaccessible
3/==See tabulations in files in Supervisor's Office
4/ Current as of December 31, 1964

b. CHEVELON BLOCK, DETAILED LISTING OF ACREAGE ASSIGNED TO ADMINISTRATIVE WORKING GROUP

(December 31, 1964)

Table 139

Classification and Identification	Width Feet	Length N.F. Land Only Miles	Commercial Forest Acres	Included in other A.W.G. Classification Acres	Acres Site	Acres Buffer	Coconino Co. Acres
Roadside Zone							
11-34	400	20.3	708	(14)			708
11-40	200	7.8	189	-			189
11-56	200	3.5	85	-			85
11-74	200	0.5	10	(2)			10
11-76	200	2.6	-	(63)			-
11-77	200	0.5	12	-			12
11-84	200	1.5	36	-			36
11-89	200	6.0	145	-			145
11-91	200	1.5	24	(12)			24
11-92	200	4.2	90	(12)			90
11-98	200	0.2	-	(5)			-
11-100	200	6.0	145	-			145
11-104	200	2.0	48	-			48
11-105	200	1.0	-	(24)			-
11-115	200	6.9	167	-			167
11-119	200	1.3	32	-			32
11-169	200	20.2	356	-			356
11-177	400	15.5	-	(752)			-
11-177A	200	1.6	-	(39)			-
11-180	200	9.9	240	-			240
11-225	200	7.2	175	-			175
Trailside Zone (Planned)	100	37.0	242	(206)			242
SUBTOTAL			2704				2704
Administrative Sites							
Chevelon R.S.			216	(24)			216
Wallace A.S.			360	-			360
Waters A.S.			415	-			415
Promontory L.O.			10	(70)			10
O'hoco L.O.			10	-			10
SUBTOTAL			1011				1011
Developed Recreation Areas							
Woods Canyon Lake			100		100	(Included below)	100
SUBTOTAL			100		100		100
Potential Recreation Areas							
Sinks			146		65	81	146
Leonard #1			60		22	38	60
Alder			100		40	60	100
Promontory			62		-	62	62
Horseshoe Lake			90		35	55	90
Double Cabin			490		50	440	490
Pius			95		40	55	95
Wallace #1			103		45	58	103
Woods Canyon			1030		210	820	1030
Dudly Lake			100		40	60	100
Ohoco Tree			118		50	68	118
Bear Lake			385		45	340	385
Gentry Spr.			180		60	120	180
Wiggins Crossing			140		40	100	140
Turkey - Beaver Lake			700		40	660	700
Lower Turkey - Beaver			91		40	51	91
Deer Lake			92		40	52	92
Lower Turkey			91		40	51	91
Wallace #2			92		40	52	92
Weimer			160		160	-	160
NFRS (planned but obsolete because of Rim Complex)			727		727	-	727
SUBTOTAL			5052		1829	3223	5052
Natural Areas (Not formally classified)							
Chevelon Canyon			6470	(All inaccessible)			6470
Double Cabin			100				100
SUBTOTAL			6570				6570
Landscape Areas							
Knoll Lake			1040	(All inaccessible)			1040
Rim Area			3326				3326
Bear Canyon			600				600
SUBTOTAL			4966				4966
GRAND TOTAL			20,403				20,403

c. HEBER BLOCK, DETAILED LISTING OF ACREAGE ASSIGNED TO ADMINISTRATIVE WORKING GROUP

(December 31, 1964)

Table 140

Classification and Identification	Width Feet	Length N.F. Land Only Miles	Commercial Forest Acres	Included in other A.W.G. Classification Acres	Acres Site	Acres Buffer	Coconino Co. Acres	Navajo Co. Acres
Roadside Zone								
11-11	400	2.5	-	(121)			-	-
11-12	400	16.0	509	(267)			-	509
11-86	200	15.3	68	(303)			-	68
11-87	200	3.0	92	-			-	92
11-99	200	9.8	238	-			77	161
11-124	200	4.0	97	-			-	97
Hwy 160	400	3.8	136	(48)			-	136
11-170	200	13.8	252	-			252	-
11-175	200	2.8	68	-			68	-
11-177	400	6.3	-	(305)			-	-
11-177	600	13.0	945	-			-	945
11-179	200	11.1	269	-			180	89
11-183	200	1.5	37	-			37	-
11-238	200	2.1	-	(51)			-	-
Hwy 277	400	6.5	97	-			-	97
11-504	200	16.1	80	-			-	80
SUBTOTAL			2888				614	2274
Trailside Zone	-	-	-	-			-	-
Administrative Sites								
Heber R.S.			355				-	355
Gentry L.O.			25				-	25
SUBTOTAL			380				-	380
Developed Recreation Areas			-				-	-
Potential Recreation Areas								
Willow Springs			300		100	200	300	-
SUBTOTAL			300		100	200	300	-
Natural Areas								
Black Canyon Wildlife			76				-	76
Plots								
SUBTOTAL			76				-	76
Landscape Areas								
Black Canyon			2144				-	2144
Willow Springs			300				300	-
Black Canyon Lake			230				-	230
Rim Area (South of 11-177)			18947				16899	2048
SUBTOTAL			21621				17199	4422
GRAND TOTAL			25,265				18,113	7,152

d. LAKESIDE BLOCK, DETAILED LISTING OF ACREAGE ASSIGNED TO ADMINISTRATIVE WORKING GROUP

(December 31, 1964)

Table 141

Classification and Identification	Width Feet	Length N.F. Land Only Miles	Commercial Forest Acres	Included in other A.W.G. Classification Acres	Acres Site	Acres Buffer	Apache Co. Acres	Navajo Co. Acres
Roadside Zone								
A-9	200	2.6	27	(36)			27	-
Hwy 60	400	13.7	121	(44)			-	121
Hwy 160	400	2.3	68	(20)			-	68
Hwy 173	400	14.1	53	(214)			-	53
11-177	400	11.0	174	(359)			-	174
11-182	200	2.4	22	(36)			-	22
11-184	200	4.7	90	(24)			90	-
11-185	200	5.4	131	-			48	83
11-187	200	2.0	38	(10)			-	38
11-188	200	2.1	51	-			-	51
11-188A	200	1.0	19	(5)			-	19
11-224	400	9.4	412	-			412	-
11-267	200	2.8	68	-			68	-
11-269	200	1.0	38	(10)			38	-
11-270	200	0.9	22	-			22	-
11-288	200	0.6	15	-			-	15
11-331	200	0.5	-	(12)			-	-
SUBTOTAL			1349				705	644
Trailside Zone	-	-	-	-			-	-
Administrative Sites								
Los Burros A.S.			240				240	-
Lakeside R.S.			200				-	200
McKay A.S.			160				160	-
Lake Mtn. L.O.			10				10	-
Springer Mtn. L.O.			10				-	10
Special Uses								
Lakeside School			80				-	80
SUBTOTAL			700				410	290
Developed Recreation Areas								
Lakeside Summer Home Area			140		140	-	-	140
White Mountain Summer Home Area			1350		1350	-	-	1350
Lakeside Campground			20		20	-	-	20
SUBTOTAL			1510		1510	-	-	1510
Potential Recreation Areas								
Fool's Hollow Complex			741		179	562	-	741
Thompson Spr. Complex			955		255	700	-	955
Blue Ridge			60		40	20	-	60
Porter Lake Complex			490		190	300	490	-
Reservation Flat Complex			350		95	255	350	-
ShowLow F.C.			100		30	70	-	100
ShowLow Lake			250		70	180	-	250
Organization Sites			560		100	460	-	560
Woodland Park F.C.			900		400	500	-	900
Brown Spring F.C.			80		40	40	80	-
Boundary F.C.			100		70	30	-	100
Lake Mtn. F.C.			41		25	16	41	-
SUBTOTAL			4627		1494	3133	961	3666
Natural Areas			-		-	-	-	-
Landscape Areas								
100' strip in excess of scenic strip along 11-177			50				-	50
SUBTOTAL			50				-	50
GRAND TOTAL			8236				2076	6160

e. PINEDALE BLOCK, DETAILED LISTING OF ACREAGE ASSIGNED TO ADMINISTRATIVE WORKING GROUP

(December 31, 1964)

Table 142

Classification and Identification	Width Feet	Length N.F. Land Only Miles	Commercial Forest Acres	Included in other A.W.G. Classification Acres	Acres Site	Acres Buffer	Navajo Co. Acres
Roadside Zone							
Hwy 160	400	16.1	97	-			97
11-177	400	33.5	-	(1624)			-
11-107	200	5.0	102	(5)			102
11-124	200	3.0	73	-			73
11-130	200	5.0	116	(5)			116
11-136	200	5.6	136	-			136
11-139	200	8.4	204	-			204
11-140	200	4.1	99	-			99
11-145	200	3.6	75	(12)			75
11-146	200	5.2	114	(12)			114
11-161	200	4.0	97	-			97
11-164	200	2.4	58	-			58
SUBTOTAL			1171				1171
Trailside Zone	-	-	-	-			-
Administrative Sites							
Lincoln A.S.			280				280
Pinedale A.S.			200				200
Deer Spr. L.O.			140				140
Juniper Ridge L.O.			40				40
SUBTOTAL			660				660
Developed Recreation Areas			-				-
Potential Recreation Areas							
Fence Tank			84		54	30	84
Lewis Canyon			140		50	90	140
Outlaw Seep			782		336	446	782
SUBTOTAL			1006		440	566	1006
Natural Area			-				-
Landscape Area			-				-
(Outlaw Seep and Misc Small Areas as shown on Map)			406				406
SUBTOTAL			406				406
GRAND TOTAL			3243				3243

8. Compartment Examination Schedule

a. COMPARTMENT EXAMINATION SCHEDULE

PINEDALE BLOCK

Table 143

Compart. No.	Gross Area	Private	National Forest	N. F. ACRES AND F. Y. TO EXAMINE									
		ACRES		1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
27.3	250.24	-	250.24	-	-	-	-	-	-	-	-	-	-
28	4,020.61	151.90	3,868.71	-	-	-	-	-	-	-	-	3,868.71	-
29	3,679.28	65.82	3,613.46	-	-	-	-	-	-	-	-	-	3,613.46
30	4,946.02	2,273.46	2,672.56	-	-	-	-	-	-	-	-	2,672.56	-
31	8,354.67	3,169.70	5,184.97	-	-	-	-	-	-	-	-	-	-
32	9,423.61	2,126.62	7,296.99	-	7,296.99	-	-	-	-	-	-	-	-
33	13,608.28	445.58	13,162.70	-	-	-	-	-	-	-	-	-	-
34	3,907.98	2,096.24	1,811.74	-	-	-	-	-	-	-	-	-	1,811.74
35	5,636.99	1,002.55	4,634.44	-	4,634.44	-	-	-	-	-	-	-	-
36	4,033.86	-	4,033.86	-	4,033.86	-	-	-	-	-	-	-	-
37	3,154.31	111.39	3,042.92	-	-	-	-	-	-	-	-	-	-
38	5,077.79	253.17	4,824.62	-	-	-	4,824.62	-	-	-	-	-	-
39	5,105.66	931.66	4,174.00	-	-	-	4,174.00	-	-	-	-	-	-
40	5,164.38	1,681.04	3,483.34	-	-	-	-	-	-	-	-	-	3,483.34
41	30,986.38	2,308.90	28,677.48	-	-	-	-	-	-	-	-	-	-
42	6,227.20	972.17	5,255.03	-	-	-	-	-	-	-	-	-	5,255.03
43	6,782.93	556.97	6,225.96	-	-	-	-	-	-	-	-	-	6,225.96
44	3,603.92	40.51	3,563.41	-	-	-	-	-	-	-	-	3,563.41	-
45	2,362.26	-	2,362.26	-	-	-	-	-	-	-	-	2,362.26	-
46	5,031.85	607.61	4,424.24	-	-	-	-	-	-	-	-	-	4,424.24
47	2,949.85	607.61	2,342.24	-	-	-	-	-	-	-	-	-	2,342.24
48	-	-	-	-	-	-	-	-	-	-	-	-	-
49	15,737.05	2,764.62	12,972.43	-	-	-	-	-	-	-	-	-	-
50	21,989.30	1,569.65	20,419.65	-	-	-	-	-	-	-	-	-	-
51	9,213.93	1,306.35	7,907.58	-	-	-	-	-	-	-	-	-	-
51.1	350.34	-	350.34	-	-	-	-	-	-	-	-	-	-
52	22,304.65	283.55	22,021.10	-	-	-	-	-	-	-	-	-	-
53	5,375.69	911.41	4,464.28	-	-	-	-	-	-	4,464.28	-	-	-
53.1	340.45	10.13	330.32	-	-	-	-	-	-	330.32	-	-	-
54	4,567.42	263.30	4,304.12	-	-	-	-	-	-	4,304.12	-	-	-
55	2,922.80	-	2,922.80	-	-	-	-	-	-	2,922.80	-	-	-
56	3,053.51	50.63	3,002.88	-	-	-	-	-	-	3,002.88	-	-	-
57	3,813.65	-	3,813.65	-	-	-	-	-	-	-	-	3,813.65	-
58	5,455.23	-	5,455.23	-	-	-	-	-	-	-	-	5,455.23	-
31.1	1,591.52	-	1,591.52	-	-	-	-	-	-	-	-	-	-
TOTALS	231,023.61	26,562.54	204,461.07	-	15,965.29	-	8,998.62	-	-	15,024.40	-	21,735.82	27,156.01

b. COMPARTMENT EXAMINATION SCHEDULE

LAKESIDE BLOCK

Table 144

Compart. No.	Gross Area	Private	National Forest	N. F. ACRES AND F. Y. TO EXAMINE									
		ACRES		1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
1	4,563.28	-	4,563.28	-	-	-	-	-	-	-	4,563.28	-	-
2	6,805.86	414.87	6,390.99	-	-	-	-	-	-	-	6,390.99	-	-
3	2,496.59	20.24	2,476.35	-	-	-	-	-	2,476.35	-	-	-	-
4	7,871.92	1,780.89	6,091.03	-	-	-	-	-	6,091.03	-	-	-	-
5	6,047.45	556.53	5,490.92	-	-	-	-	-	5,490.92	-	-	-	-
6	3,315.12	-	3,315.12	-	-	-	-	-	-	-	3,315.12	-	-
7	2,496.33	-	2,496.33	-	-	2,496.33	-	-	-	-	-	-	-
8	5,826.38	1,133.29	4,693.09	-	-	-	-	-	-	-	-	4,693.09	-
9	5,563.15	101.19	5,461.96	-	-	5,461.96	-	-	-	-	-	-	-
10	7,070.12	40.47	7,029.65	-	-	7,029.65	-	-	-	-	-	-	-
11	3,004.79	698.19	2,306.60	-	-	-	-	-	2,306.60	-	-	-	-
12	8,698.42	849.97	7,848.45	-	-	-	-	-	-	-	-	-	-
13	3,208.48	242.85	2,965.63	-	-	2,965.63	-	-	-	-	-	-	-
14	10,262.05	2,813.02	7,449.03	-	-	-	-	-	-	-	-	-	7,449.03
15	3,583.81	688.07	2,895.74	-	-	-	-	-	-	-	-	2,895.75	-
16	3,750.25	1,194.01	2,556.24	-	-	-	-	-	-	-	-	2,556.24	-
17	4,149.27	1,922.55	2,226.72	-	-	-	-	-	-	-	-	2,226.72	-
18	5,062.56	758.90	4,303.66	-	-	-	-	-	-	-	-	4,303.66	-
19	11,976.86	8,671.73	3,305.13	-	-	-	-	-	-	-	-	-	-
20	8,677.75	40.47	8,637.28	-	-	-	-	-	-	-	-	-	-
21	4,713.06	-	4,713.06	-	-	-	-	-	-	-	-	-	-
22	13,781.64	2,418.37	11,363.27	-	-	-	-	-	-	-	-	-	-
23	6,692.56	182.14	6,510.42	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-	-	-	-	-
27	17,032.02	3,490.95	13,541.07	-	-	-	-	-	-	-	-	-	-
27.1	1,977.62	40.47	1,937.15	-	-	-	-	-	-	-	-	-	-
27.2	892.29	273.20	619.09	-	-	-	-	-	-	-	-	-	-
27.3	928.63	-	928.63	-	-	-	-	-	-	-	-	-	-
TOTALS	160,448.26	28,332.37	132,115.89	-	-	17,953.57	-	-	16,364.90	-	14,269.39	16,675.46	7,449.03

c. COMPARTMENT EXAMINATION SCHEDULE

CHEVELON BLOCK

Table 145

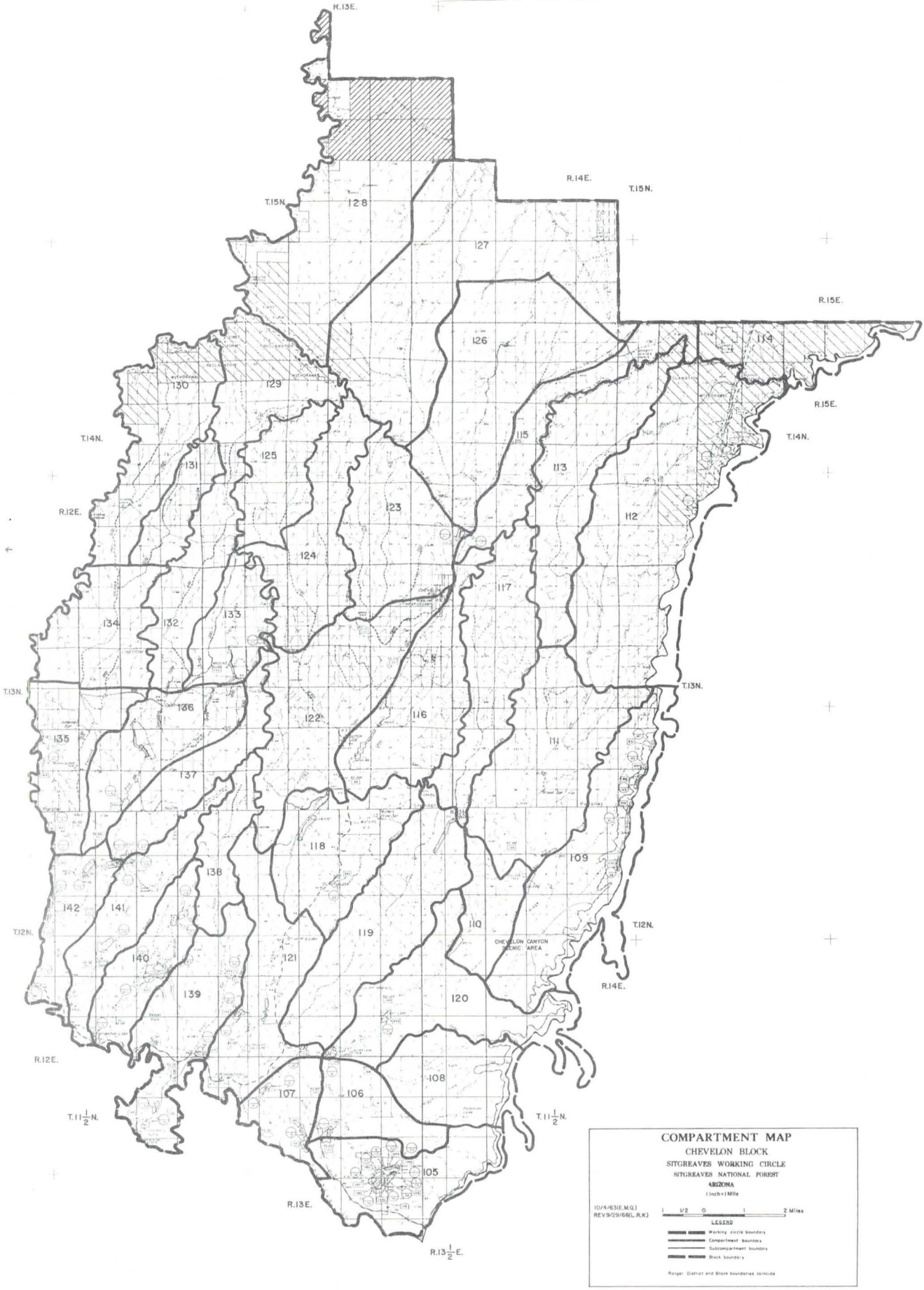
Compart. No.	Gross Area	Private	National Forest	N. F. ACRES AND F. Y. TO EXAMINE									
	ACRES			1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
105	5,279.00	-	5,279.00	-	-	-	-	-	-	-	5,279.00	-	-
106	2,859.46	-	2,859.46	-	-	-	-	-	-	-	2,859.46	-	-
107	2,309.56	-	2,309.56	-	-	-	-	-	-	-	2,309.56	-	-
108	4,209.20	-	4,209.20	-	-	-	-	4,209.20	-	-	-	-	-
109	8,894.37	1,035.86	7,858.51	-	-	-	-	7,858.51	-	-	-	-	-
110	2,509.81	50.28	2,459.53	-	-	-	-	2,459.53	-	-	-	-	-
111	8,225.84	2,976.84	5,249.00	2,000.00	-	-	-	3,249.00	-	-	-	-	-
112	13,872.36	-	13,872.36	3,000.00	-	-	-	1,100.00	-	-	-	-	-
113	6,398.78	-	6,398.78	2,000.00	-	-	-	2,000.00	-	-	-	-	-
114	2,999.43	-	2,999.43	-	-	-	-	-	-	-	-	-	-
115	3,930.08	140.80	3,789.28	2,000.00	-	-	-	-	-	-	-	-	-
116	6,009.56	1,830.36	4,179.20	-	-	-	-	-	-	-	4,179.20	-	-
117	6,063.96	874.95	5,189.01	-	-	-	-	5,189.01	-	-	-	-	-
118	5,399.56	100.57	5,298.99	-	-	-	-	5,298.99	-	-	-	-	-
119	7,179.05	70.40	7,108.65	2,000.00	-	-	-	3,000.00	2,108.65	-	-	-	-
120	6,378.79	-	6,378.79	-	-	-	-	-	6,378.79	-	-	-	-
121	5,909.17	50.28	5,858.89	-	-	-	-	-	5,858.89	-	-	-	-
122	7,881.73	2,262.80	5,618.93	-	-	-	-	-	-	-	5,618.93	-	-
123	5,708.91	-	5,708.91	-	-	-	-	-	-	5,708.91	-	-	-
124	5,406.38	1,267.17	4,139.21	-	-	-	-	-	-	4,139.21	-	-	-
125	3,306.08	1,146.49	2,159.59	-	-	-	-	-	-	2,159.59	-	-	-
126	9,948.22	20.11	9,928.11	3,000.00	-	-	-	-	-	-	-	-	-
127	14,048.67	-	14,048.67	-	-	-	-	-	-	-	-	-	-
128	12,884.43	1,176.66	11,707.77	-	-	-	-	-	-	-	-	-	-
129	5,401.33	402.28	4,999.05	-	-	-	-	-	-	4,997.05	-	-	-
130	6,008.62	1,669.44	4,339.18	-	-	-	-	-	4,339.18	-	-	-	-
131	2,046.55	1,186.71	859.84	-	-	-	-	-	859.84	-	-	-	-
132	3,689.94	1,820.30	1,869.64	-	-	-	-	-	1,869.64	-	-	-	-
133	2,857.39	1,357.68	1,499.71	-	-	-	-	-	1,499.71	-	-	-	-
134	4,612.70	2,323.14	2,289.56	-	-	-	-	-	2,289.56	-	-	-	-
135	4,169.61	1,780.07	2,389.54	-	-	-	-	-	-	-	2,389.54	-	-
136	4,663.56	2,453.98	2,209.58	-	-	-	-	-	-	-	2,209.58	-	-
137	3,545.85	1,116.31	2,429.54	-	-	-	-	-	-	-	2,429.54	-	-
138	2,392.02	422.39	1,969.63	-	-	-	-	-	-	-	1,969.63	-	-
139	5,658.92	-	5,658.92	-	-	-	-	-	-	-	5,658.92	-	-
140	3,329.37	-	3,329.37	-	-	-	-	-	-	-	3,329.37	-	-
141	3,809.28	-	3,809.28	-	-	-	-	-	-	-	3,809.28	-	-
142	2,889.45	-	2,889.45	-	-	-	-	-	-	-	2,889.45	-	-
TOTALS	212,686.99	27,535.87	185,151.12	14,000.00	-	-	-	34,364.24	25,204.26	17,004.76	44,931.46	-	-

d. COMPARTMENT EXAMINATION SCHEDULE

HEBER BLOCK

Table 146

Compart. No.	Gross Area	Private	National Forest	N. F. ACRES AND F. Y. TO EXAMINE									
		ACRES		1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
59	4,965.65	-	4,965.65	-	-	-	-	-	-	-	-	-	4,965.65
60	3,536.91	-	3,536.91	-	-	-	-	-	-	-	-	-	3,534.91
61	4,799.73	263.70	4,536.03	-	-	-	-	-	-	-	-	-	4,536.03
62	11,099.54	2,631.95	8,467.59	-	-	-	-	-	-	-	-	-	-
62.1	99.91	-	99.91	-	-	-	-	-	-	-	-	-	-
63	16,019.01	202.85	15,816.16	-	-	-	-	-	-	-	-	-	-
63.1	2,092.71	304.27	1,788.44	-	-	-	-	-	-	-	-	-	-
64	34,345.58	1,714.07	32,631.51	-	-	-	-	-	-	-	-	-	-
65	6,839.78	2,733.37	4,106.41	-	-	-	-	-	-	4,106.41	-	-	-
66	4,114.92	1,577.14	2,537.78	-	-	-	-	-	-	2,537.78	-	-	-
67	4,617.16	750.54	3,866.62	-	-	-	-	-	-	-	-	-	3,866.62
68	3,414.87	527.40	2,887.47	-	-	-	-	-	-	-	-	-	2,887.47
69	8,443.22	40.57	8,402.65	-	-	-	8,402.65	-	-	-	-	-	-
70	3,887.21	40.57	3,846.64	-	-	-	3,846.64	-	-	-	-	-	-
71	3,941.55	-	3,941.55	-	-	-	3,941.55	-	-	-	-	-	-
72	6,204.57	-	6,204.57	-	-	-	-	-	-	-	-	6,204.57	-
73	4,391.16	-	4,391.16	-	-	-	-	-	-	-	-	4,391.16	-
74	7,869.62	101.42	7,768.20	-	-	-	-	-	-	-	-	7,768.20	-
75	3,766.70	-	3,766.70	-	-	-	3,766.70	-	-	-	-	-	-
76	4,755.84	-	4,755.84	-	4,755.84	-	-	-	-	-	-	-	-
77	7,444.68	1,085.24	6,359.44	-	-	-	6,359.44	-	-	-	-	-	-
78	2,772.57	-	2,772.57	-	2,772.57	-	-	-	-	-	-	-	-
79	5,054.20	578.12	4,476.08	-	4,476.08	-	-	-	-	-	-	-	-
80	4,546.57	2,383.46	2,163.11	-	2,163.11	-	-	-	-	-	-	-	-
81	4,130.47	273.84	3,856.63	-	3,856.63	-	-	-	-	-	-	-	-
82	8,324.83	141.99	8,182.84	-	-	-	-	-	-	-	-	-	-
83	5,418.71	1,572.07	3,846.64	1,000.00	-	2,846.64	-	-	-	-	-	-	-
84	17,090.05	-	17,090.05	-	-	-	-	-	-	-	-	-	-
85	6,694.34	1,354.01	5,340.33	-	-	5,340.33	-	-	-	-	-	-	-
86	10,730.61	-	10,730.61	-	-	-	-	-	-	-	-	-	-
87	5,315.62	1,359.08	3,956.54	-	-	3,956.54	-	-	-	-	-	-	-
88	9,403.13	91.28	9,311.85	-	-	-	9,311.85	-	-	-	-	-	-
89	6,172.71	2,211.18	3,961.53	-	-	-	3,961.53	-	-	-	-	-	-
90	-	-	-	-	-	-	-	-	-	-	-	-	-
91	-	-	-	-	-	-	-	-	-	-	-	-	-
92	-	-	-	-	-	-	-	-	-	-	-	-	-
93	4,926.75	71.00	4,855.75	-	-	4,855.75	-	-	-	-	-	-	-
94	2,762.58	-	2,762.58	-	-	2,762.58	-	-	-	-	-	-	-
95	2,992.38	-	2,992.38	-	-	2,992.38	-	-	-	-	-	-	-
96	7,469.37	60.85	7,408.52	-	7,408.52	-	-	-	-	-	-	-	-
97	4,166.36	-	4,166.36	-	4,166.36	-	-	-	-	-	-	-	-
98	3,287.24	1,348.94	1,938.30	-	1,938.30	-	-	-	-	-	-	-	-
99	3,806.67	-	3,806.67	-	-	3,806.67	-	-	-	-	-	-	-
100	5,485.20	-	5,485.20	-	-	5,485.20	-	-	-	-	-	-	-
101	3,237.17	-	3,237.17	-	-	-	-	-	-	3,237.17	-	-	-
102	4,086.43	-	4,086.43	-	-	-	-	-	-	4,086.43	-	-	-
103	3,556.89	-	3,556.89	-	-	-	-	-	-	3,556.89	-	-	-
104	2,307.98	-	2,307.98	-	-	-	-	-	-	2,307.98	-	-	-
TOTALS	280,389.15	23,418.91	256,970.24	1,000.00	35,124.28	32,046.09	39,590.36	-	-	19,832.66	-	18,363.93	19,790.68



COMPARTMENT MAP

CHEVELON BLOCK

SITGREAVES WORKING CIRCLE

SITGREAVES NATIONAL FOREST

ARIZONA

(1inch=1Mile)

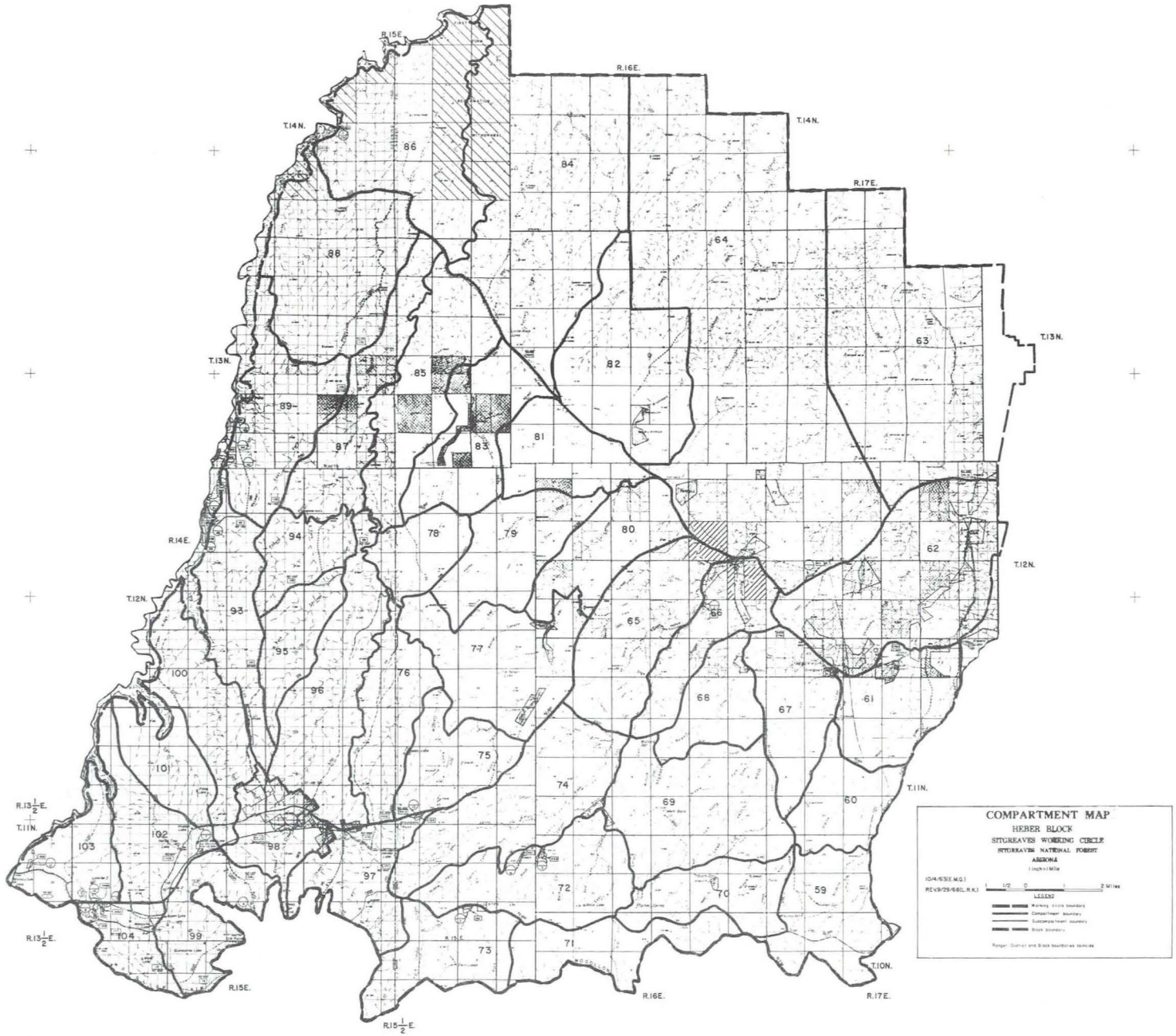
(10/4/63(E.M.Q.)
REV.9/29/66(L.R.K.)

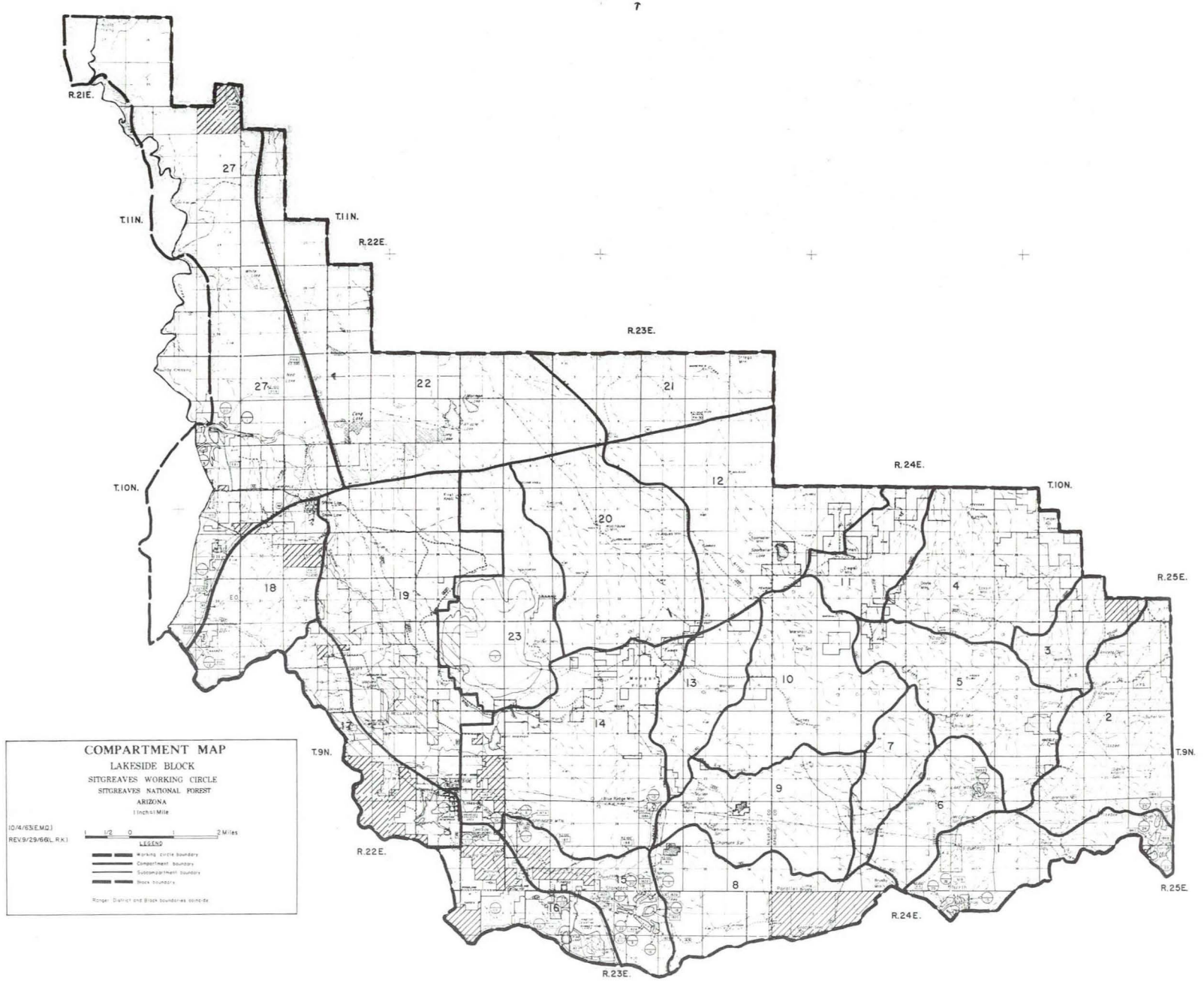
1 ½ 0 1 2 Miles

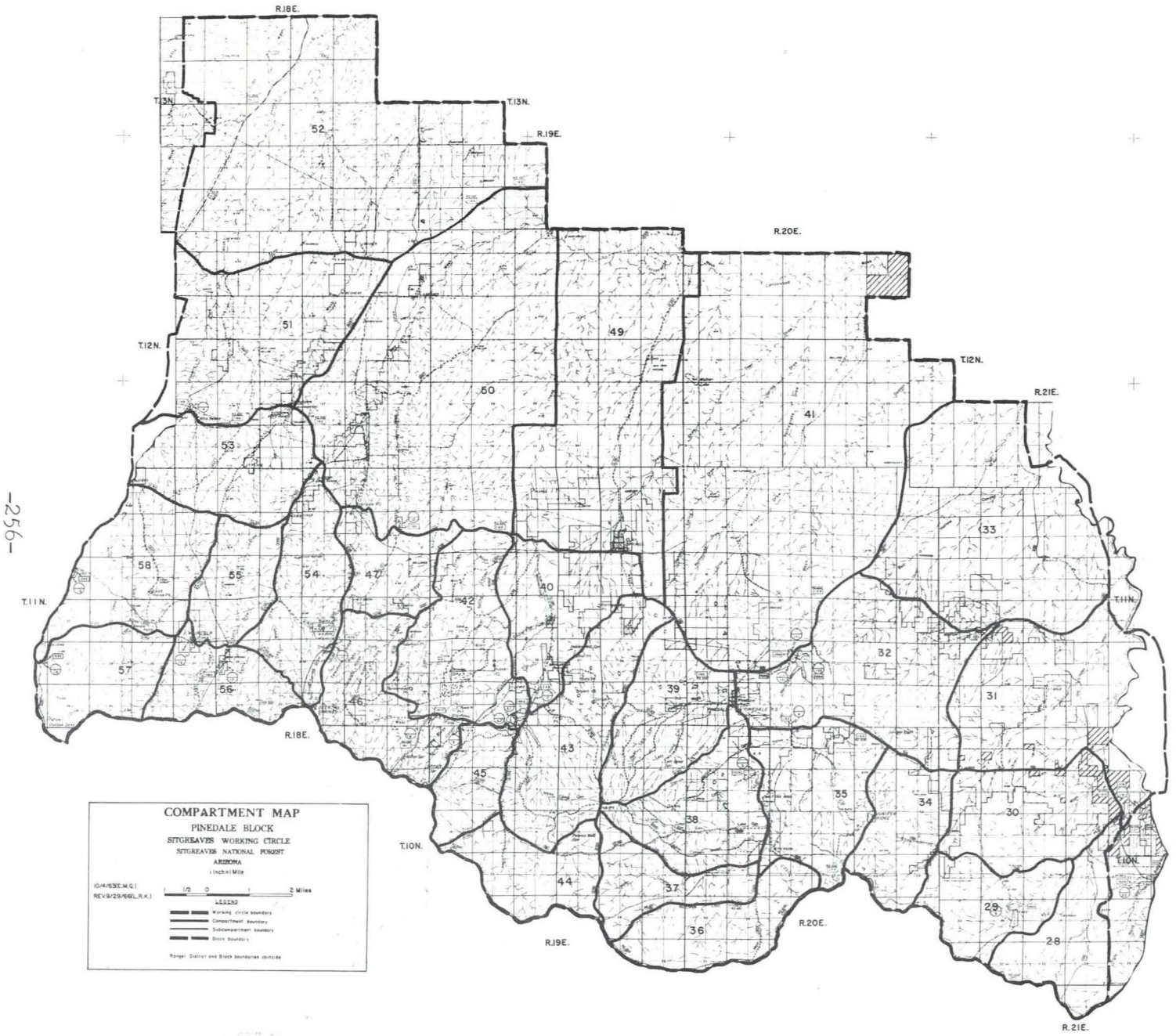
LEGEND

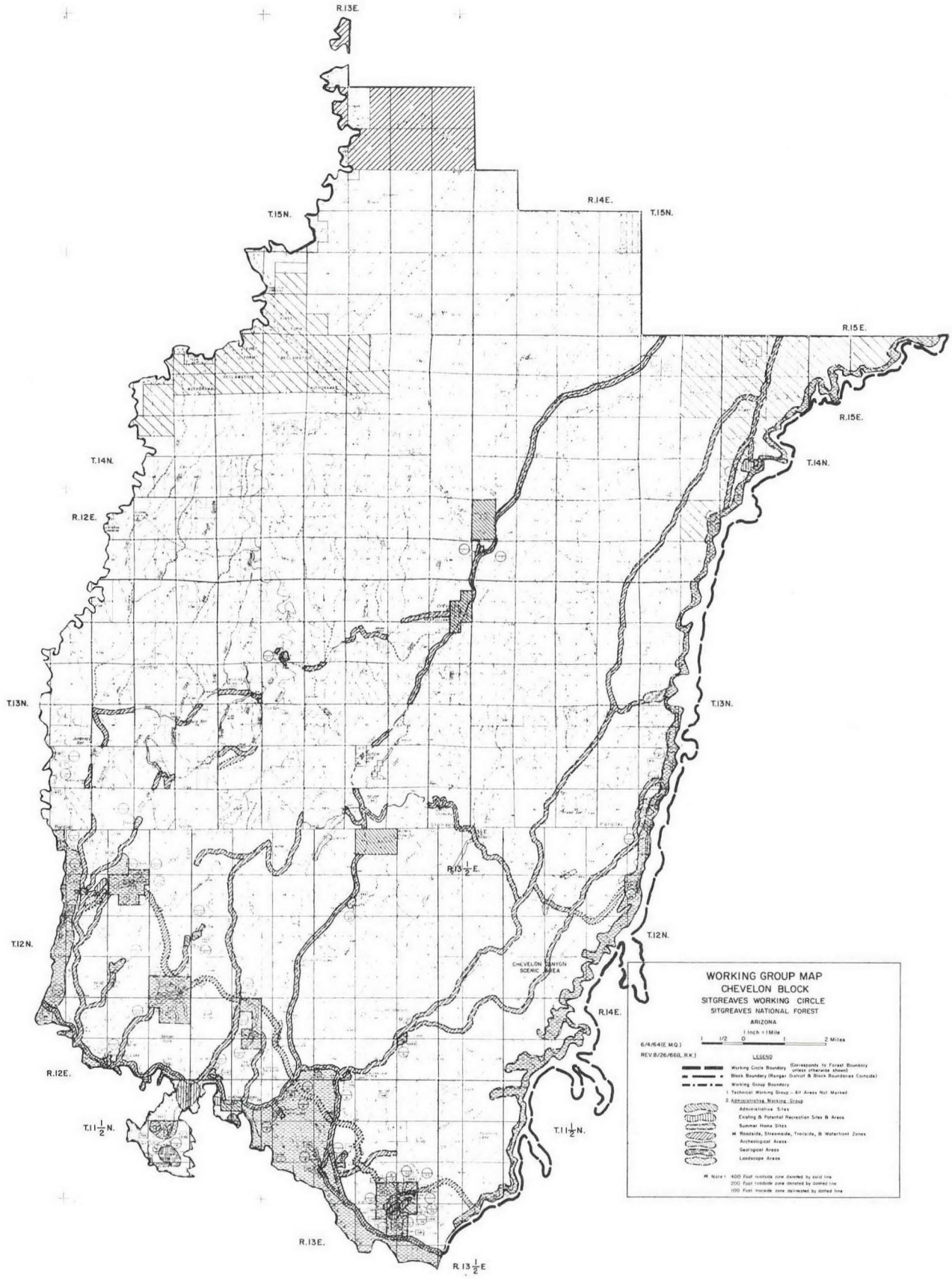
- Working circle boundary
- Compartment boundary
- Subcompartment boundary
- Block boundary

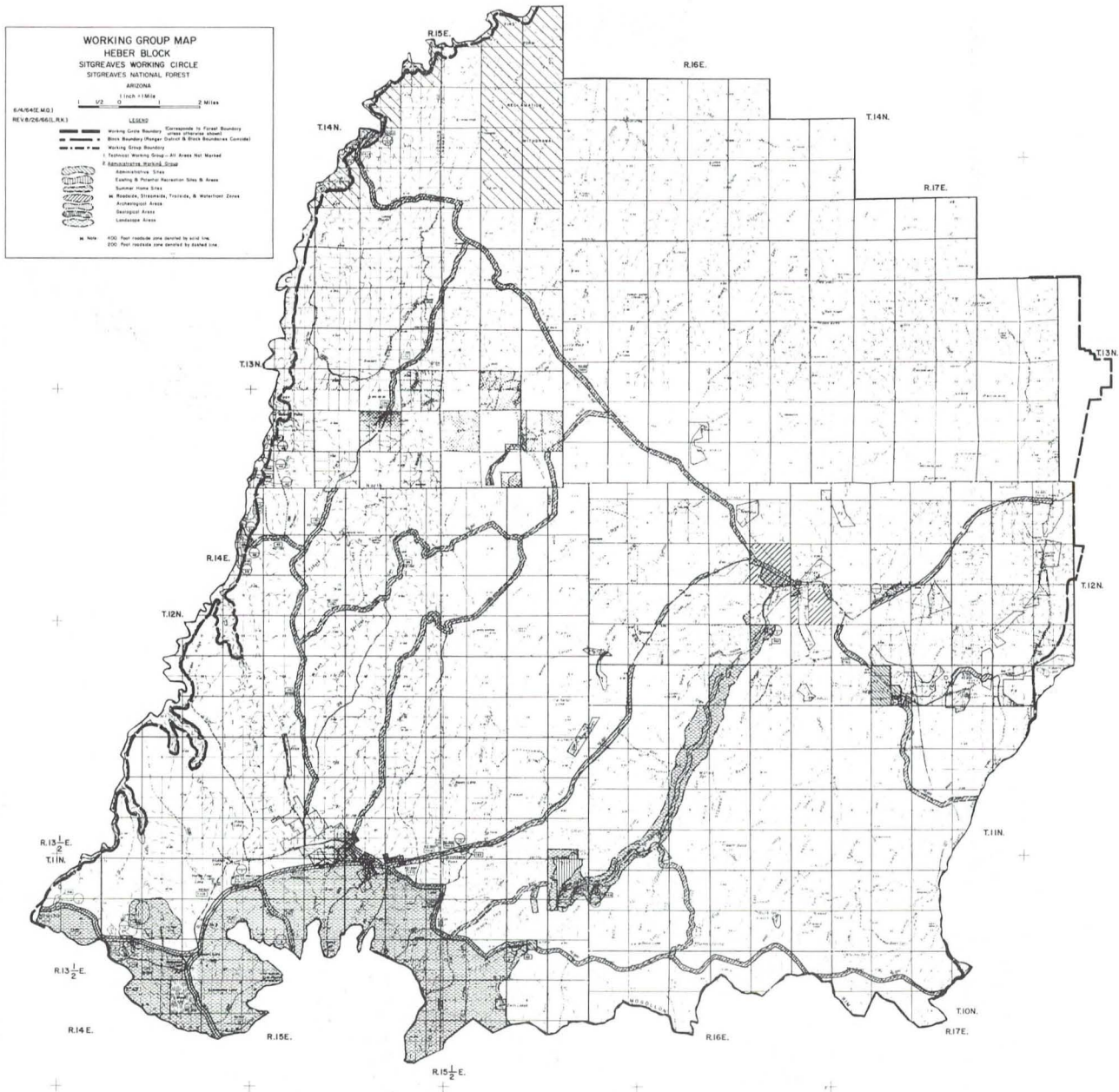
Ranger District and Block boundaries coincide

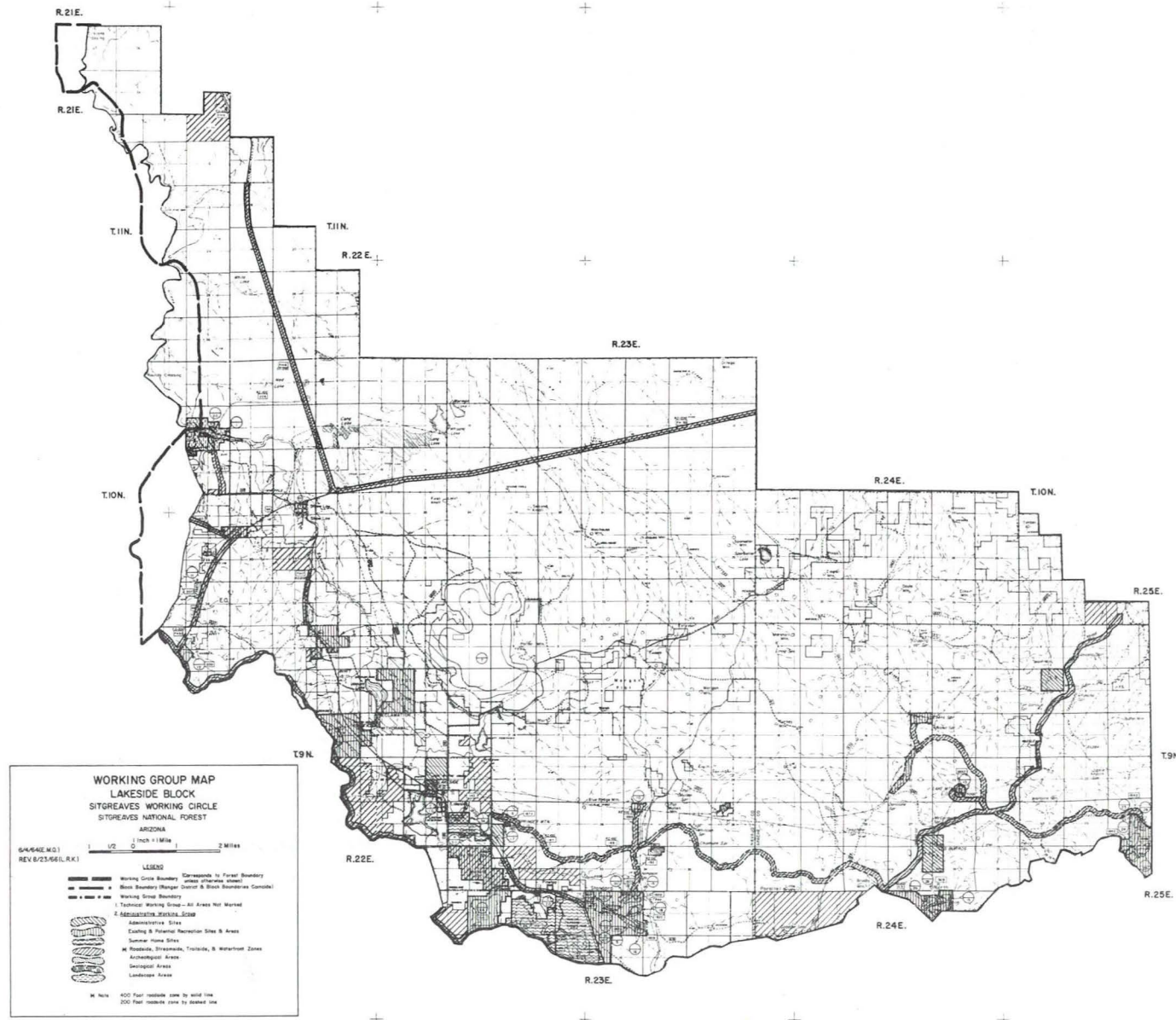

R.15E.
R.16E.
R.17E.
T.14N.
T.13N.
T.12N.
T.11N.
T.10N.
R.14E.
R.13½E.
R.15½E.
86
84
88
64
85
82
63
89
81
83
97
94
78
79
80
62
93
65
95
77
100
96
76
68
67
61
101
75
74
69
60
103
102
98
72
70
59
104
99
73
71
COMPARTMENT MAP
HEBER BLOCK
SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST
ARIZONA
1 Inch = 1 Mile
10/4/65(SE.M.G.)
REVS/29/66(L.R.K.)
1/2 0 1 2 Miles
LEGEND
Working circle boundary
Compartment boundary
Subcompartment boundary
Block boundary
Ranger District and Block boundaries coincide

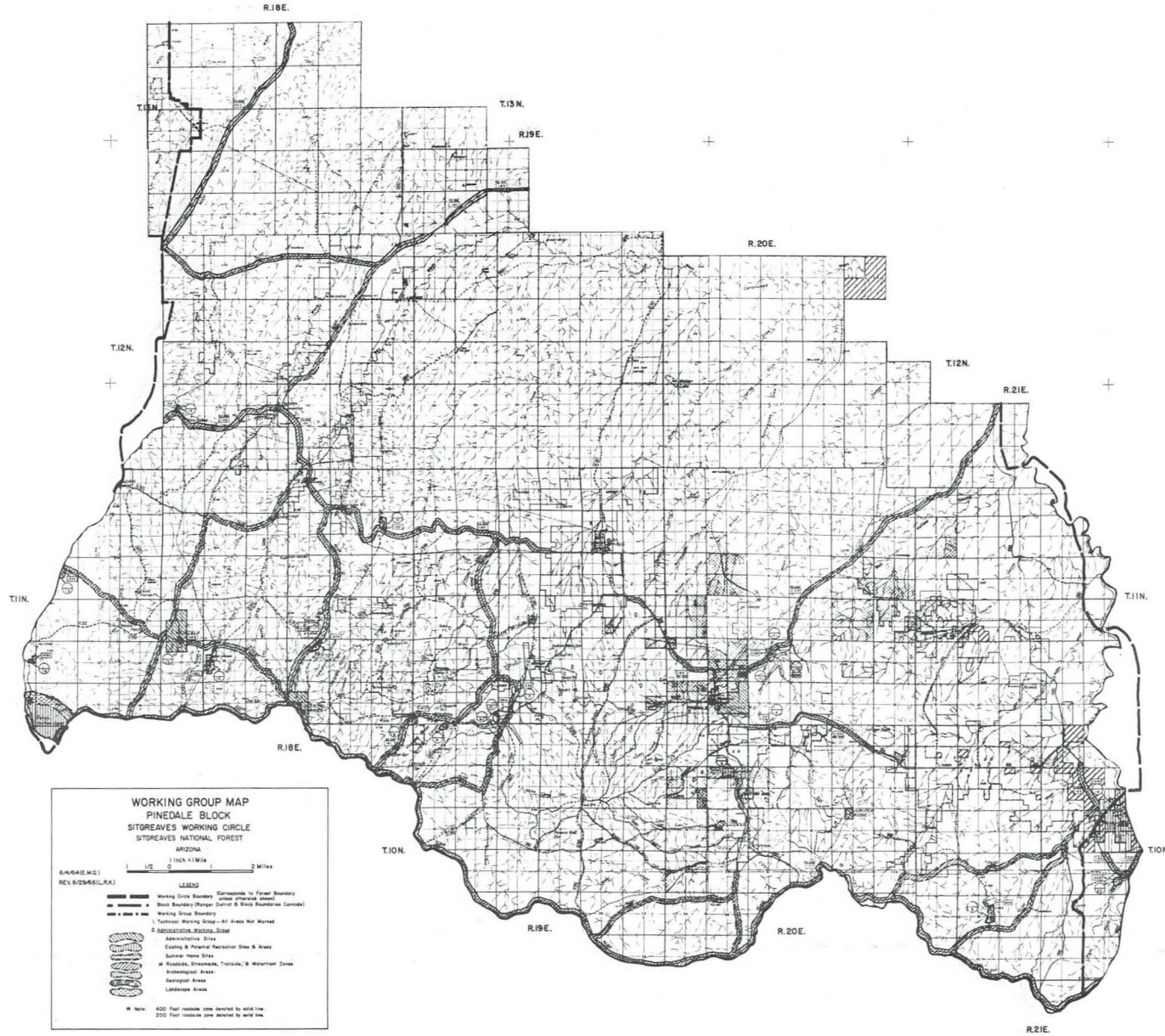

R.21E.
T.11N.
T.11N.
R.22E.
R.23E.
R.24E.
T.10N.
R.25E.
T.10N.
T.9N.
T.9N.
R.22E.
R.23E.
R.24E.
R.25E.
27
27
22
21
12
20
18
19
23
1
11
4
3
13
10
5
2
14
7
9
6
15
8
16
17
5
COMPARTMENT MAP
LAKESIDE BLOCK
SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST
ARIZONA
1 Inch = 1 Mile
10/4/63(E.M.Q.)
REV.9/29/66(L.R.K.)
1/2 0 1 2 Miles
LEGEND
Working circle boundary
Compartment boundary
Subcompartment boundary
Block boundary
Ranger District and Block boundaries coincide

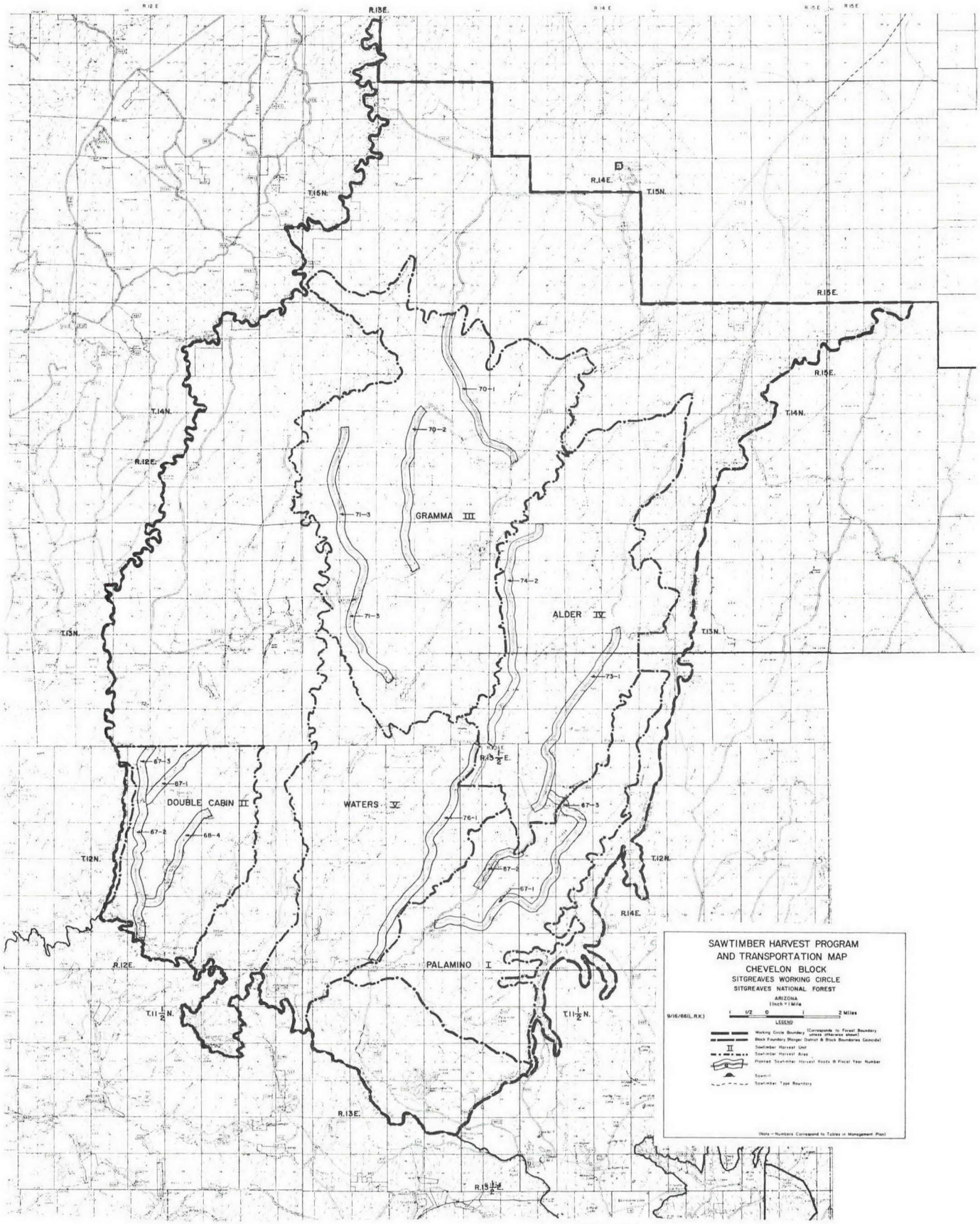

R.18E.
T.13N.
R.19E.
R.20E.
R.21E.
T.12N.
T.11N.
T.10N.
52
51
49
50
41
53
33
58
55
54
47
42
40
32
57
56
46
39
31
43
45
35
34
38
30
44
37
29
36
28
COMPARTMENT MAP
PINEDALE BLOCK
SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST
ARIZONA
1 Inch = 1 Mile
(G.A./63 E.M.Q.)
REV 9/29/66 (L.R.K.)
1/2 0 1 2 Miles
LEGEND
Working circle boundary
Compartment boundary
Subcompartment boundary
Block boundary
Ranger District and Block boundaries coincide


R.13E.
T.15N.
R.14E.
T.15N.
R.15E.
R.15E.
T.14N.
T.14N.
R.12E.
T.13N.
T.13N.
R.13½E.
T.12N.
T.12N.
CHEVELON CANYON SCENIC AREA
R.14E.
R.12E.
T.11½N.
T.11½N.
R.13E.
R.13½E
WORKING GROUP MAP
CHEVELON BLOCK
SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST
ARIZONA
1 Inch = 1 Mile
1 1/2 0 1 2 Miles
6/4/64(E.M.Q.)
REV.8/26/66(L.R.K.)
LEGEND
Working Circle Boundary (Corresponds to Forest Boundary unless otherwise shown)
Block Boundary (Ranger District & Block Boundaries Coincide)
Working Group Boundary
1 Technical Working Group - All Areas Not Marked
2 Administrative Working Group
Administrative Sites
Existing & Potential Recreation Sites & Areas
Summer Home Sites
M Roadside, Streamside, Trailside, & Waterfront Zones
Archeological Areas
Geological Areas
Landscape Areas
M Note: 400 Foot roadside zone delimited by solid line
200 Foot roadside zone delimited by dashed line
100 Foot roadside zone delimited by dotted line

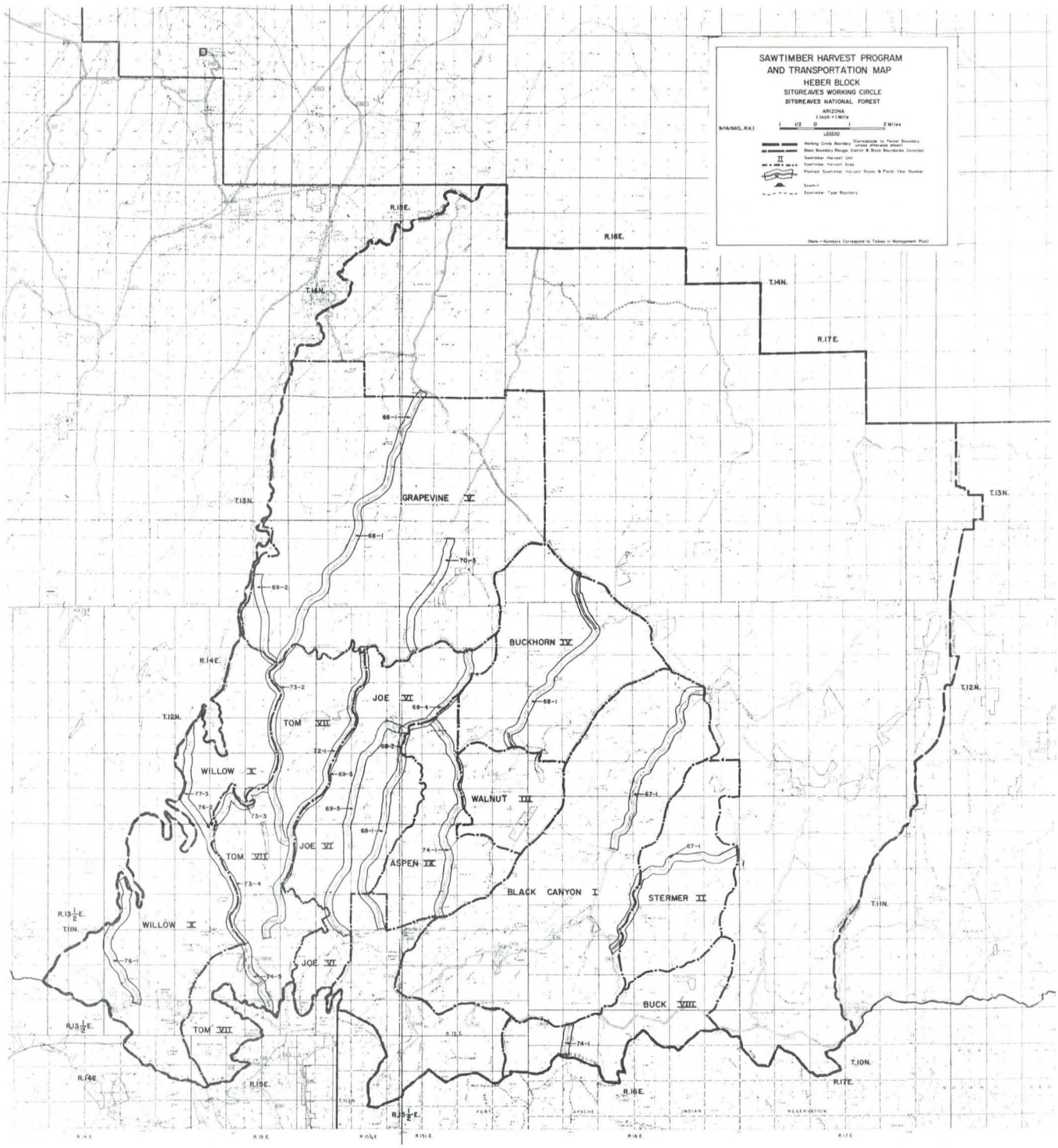

WORKING GROUP MAP
HEBER BLOCK
SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST
ARIZONA
1 inch = 1 Mile
1/2 0 1 2 Miles
6/4/64(E.M.G.)
REV.8/26/66(L.R.K.)
LEGEND
Working Circle Boundary (Corresponds to Forest Boundary unless otherwise shown)
Block Boundary (Ranger District & Block Boundaries Coincide)
Working Group Boundary
I. Technical Working Group - All Areas Not Marked
2 Administrative Working Group
Administrative Sites
Existing & Potential Recreation Sites & Areas
Summer Home Sites
Roadside, Streamside, Trailside, & Waterfront Zones
Archeological Areas
Geological Areas
Landscape Areas
Note: 400 Foot roadside zone denoted by solid line.
200 Foot roadside zone denoted by dashed line.
R.15E.
R.16E.
R.17E.
T.14N.
T.13N.
T.12N.
T.11N.
T.10N.
R.14E.
R.13 1/2 E.
R.15 1/2 E.

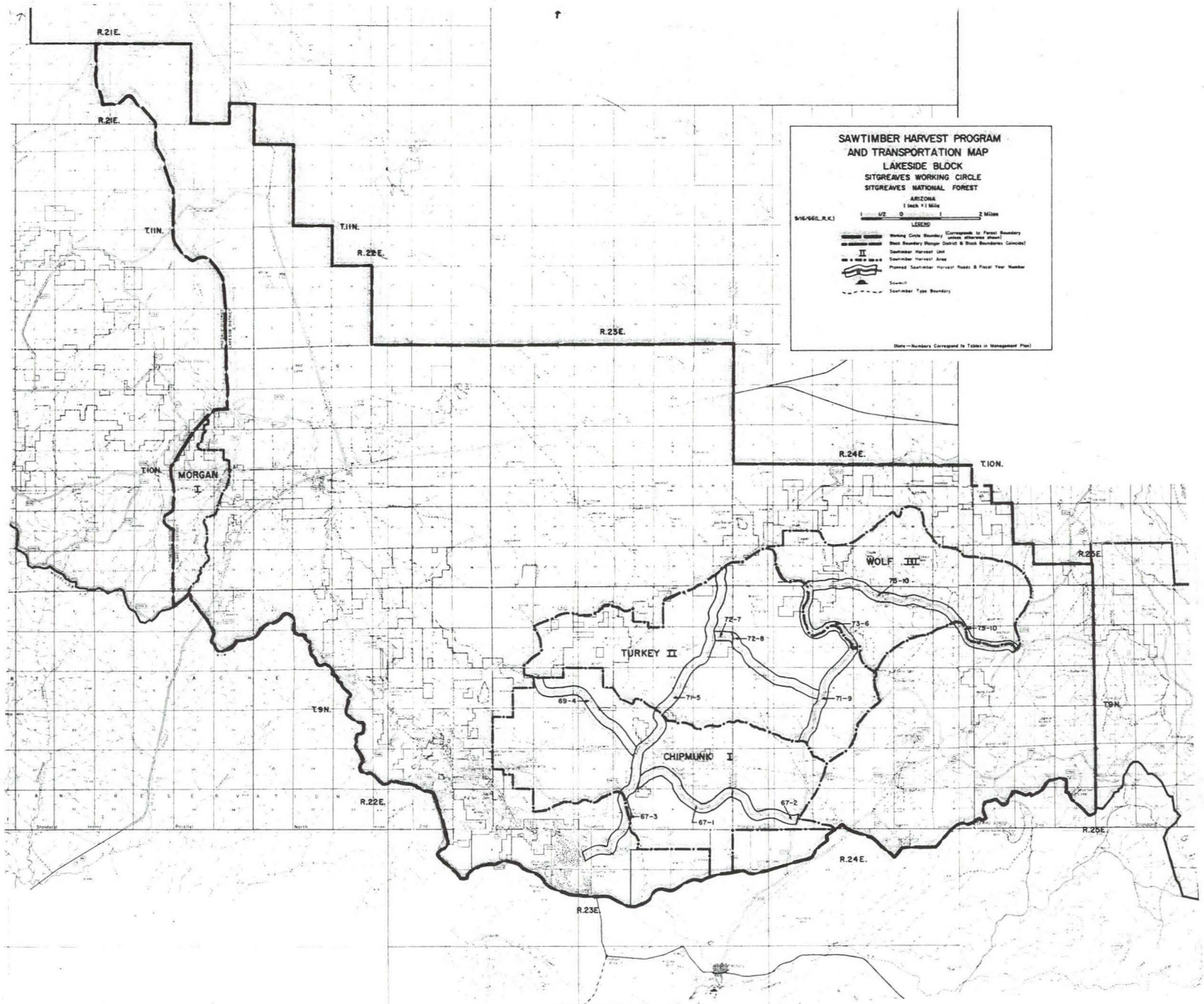

R.21E.
R.21E.
T.11N.
T.11N.
R.22E.
R.23E.
R.24E.
T.10N.
T.10N.
R.25E.
T.9N.
T.9N.
R.22E.
R.24E.
R.25E.
R.23E.
WORKING GROUP MAP
LAKESIDE BLOCK
SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST
ARIZONA
6/4/64(E.M.D.)
REV 8/25/66(L.R.K.)
1/2 0 1 Inch = 1 Mile 2 Miles
LEGEND
Working Circle Boundary (Corresponds to Forest Boundary unless otherwise shown)
Block Boundary (Ranger District & Block Boundaries Coincide)
Working Group Boundary
1. Technical Working Group – All Areas Not Marked
2. Administrative Working Group
Administrative Sites
Existing & Potential Recreation Sites & Areas
Summer Home Sites
Roadside, Streamside, Trailside, & Waterfront Zones
Archeological Areas
Geological Areas
Landscape Areas
Note 400 Foot roadside zone by solid line
200 Foot roadside zone by dashed line

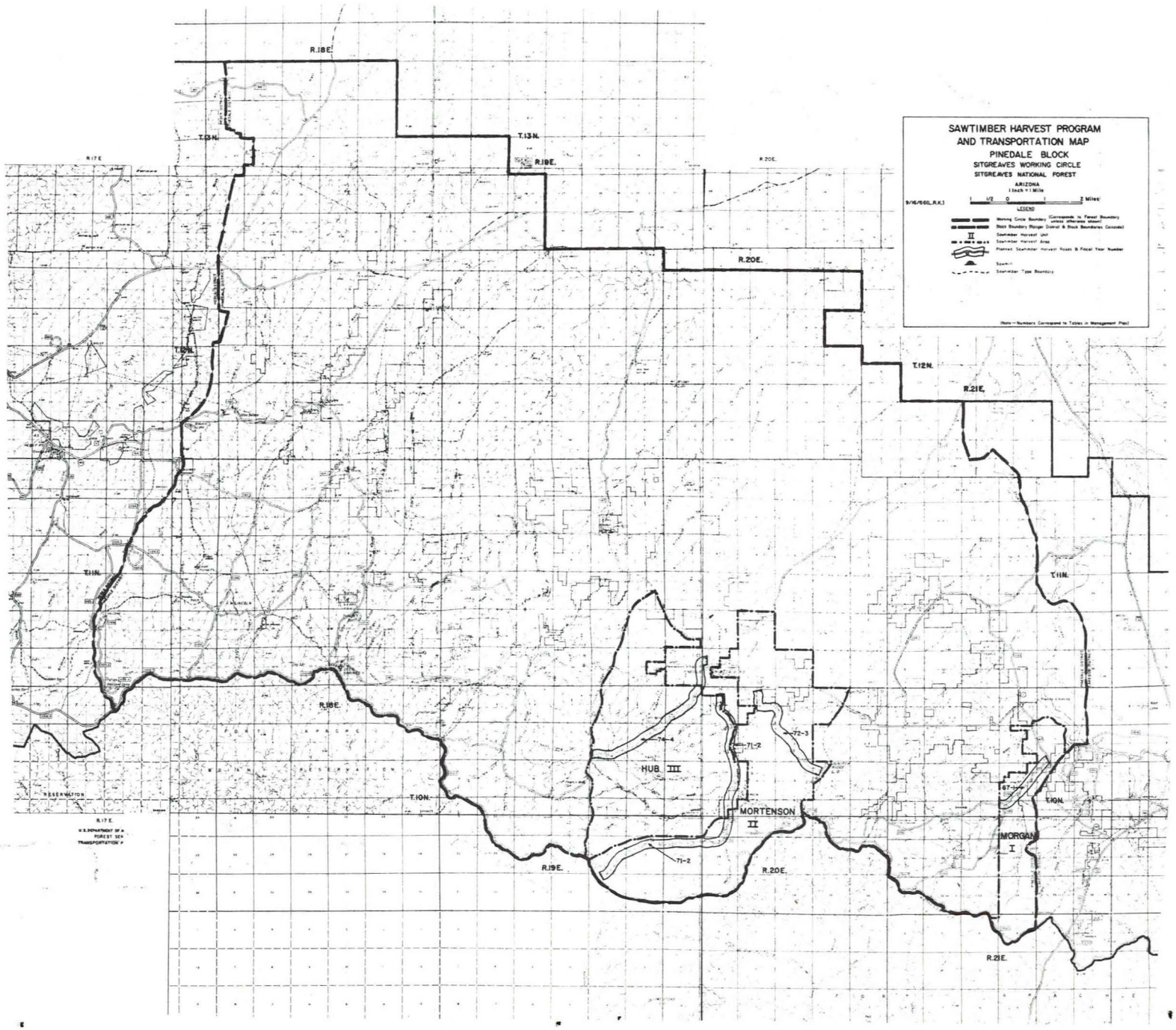

R.18E.
T.13N.
R.19E.
R.20E.
T.12N.
R.21E.
T.11N.
T.10N.
WORKING GROUP MAP
PINEDALE BLOCK
SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST
ARIZONA
1 Inch = 1 Mile
1/2 0 1 2 Miles
6-14-54 (E.M.Q.)
REV. 8-23-66 (L.R.K.)
LEGEND
Working Circle Boundary (Corresponds to Forest Boundary unless otherwise shown)
Block Boundary (Ranger District & Block Boundaries Coincide)
Working Group Boundary
1. Technical Working Group — All Areas Not Marked
2. Administrative Working Group
Administrative Sites
Existing & Potential Recreation Sites & Areas
Summer Home Sites
W. Roadside, Streamside, Trailside, & Waterfront Zones
Archeological Areas
Geological Areas
Landscape Areas
W. Note: 400 Foot roadside zone denoted by solid line.
200 Foot roadside zone denoted by solid line.

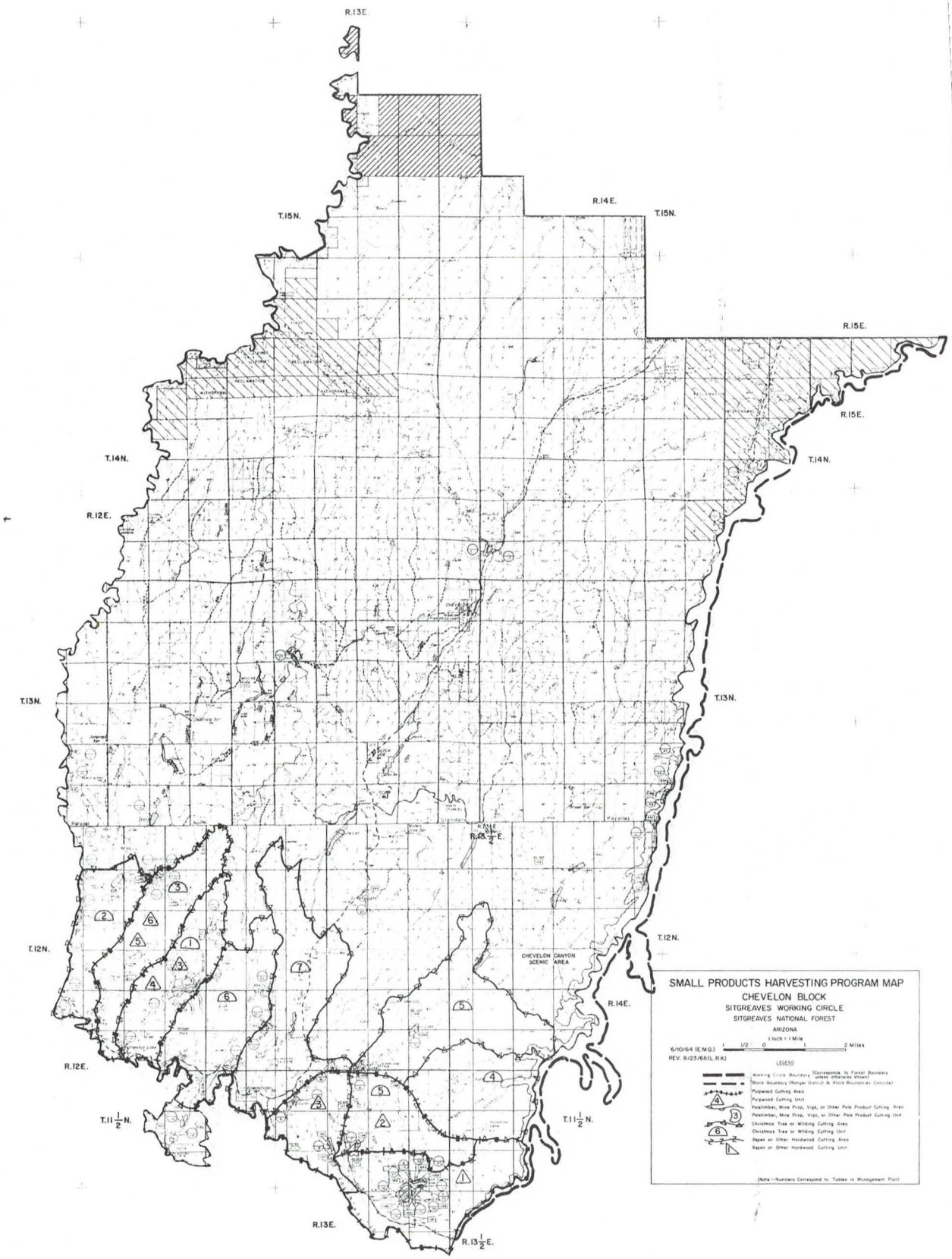


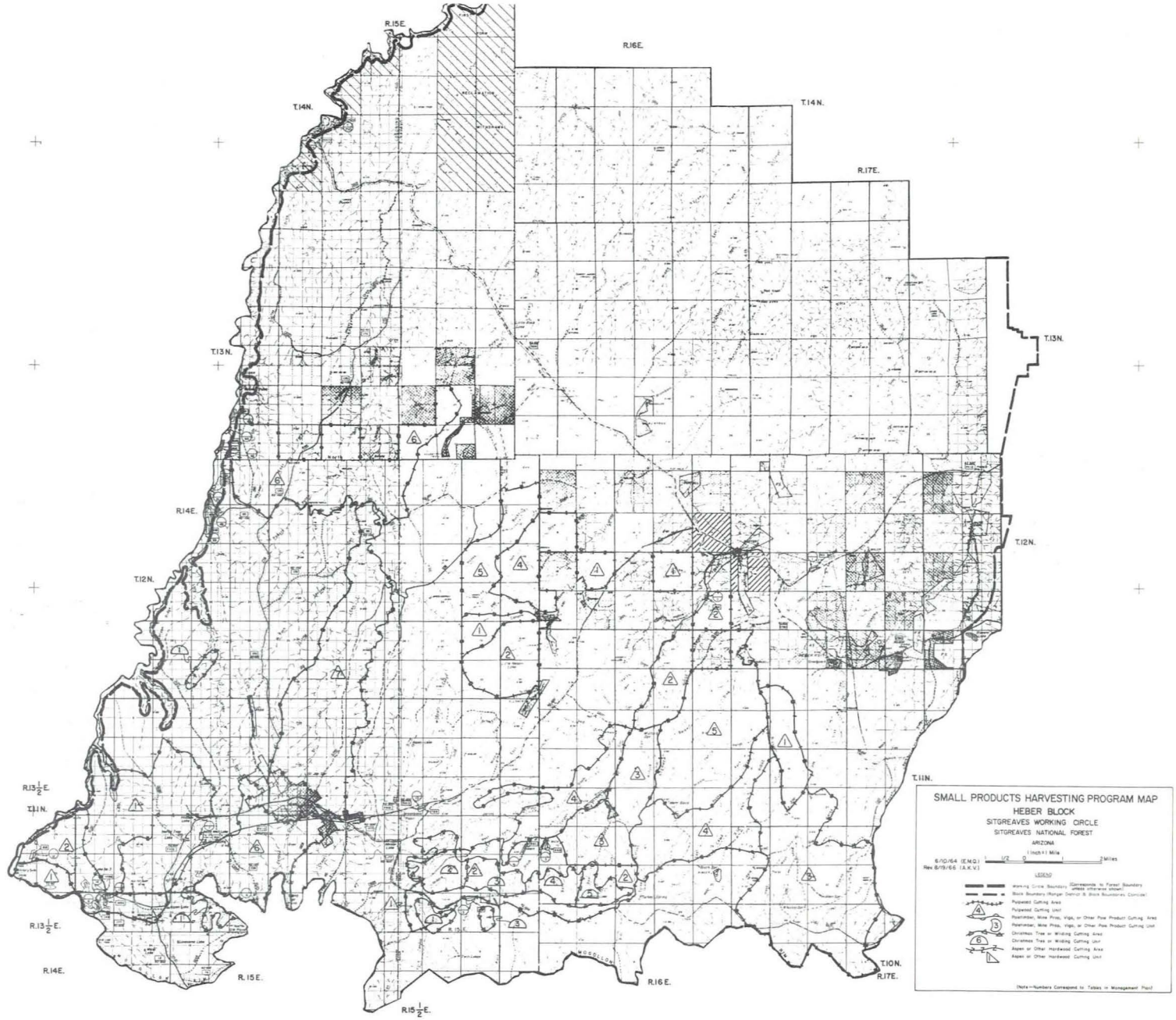
SAWTIMBER HARVEST PROGRAM
AND TRANSPORTATION MAP
CHEVELON BLOCK
SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST
ARIZONA
1 Inch = 1 Mile
9/16/66(L.R.K.)
1/2 0 1 2 Miles
LEGEND
Working Circle Boundary (Corresponds to Forest Boundary unless otherwise shown)
Block Boundary (Ranger District & Block Boundaries Coincide)
II Sawtimber Harvest Unit
Sawtimber Harvest Area
Planned Sawtimber Harvest Roads & Fiscal Year Number
Spur
Sawtimber Type Boundary
(Note — Numbers Correspond to Tables in Management Plan)

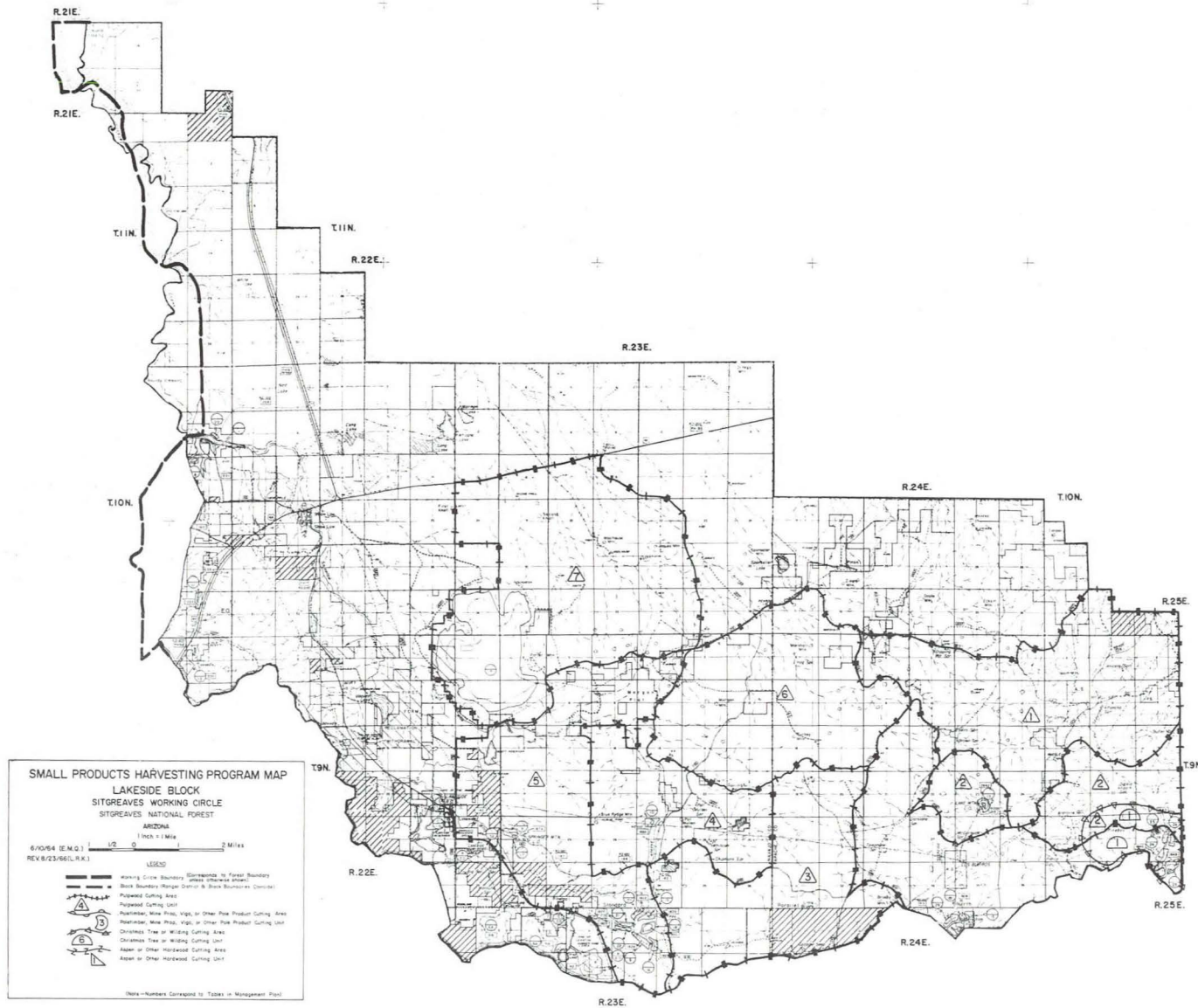

SAWTIMBER HARVEST PROGRAM
AND TRANSPORTATION MAP
HEBER BLOCK
SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST
ARIZONA
1 Inch = 1 Mile
1 1/2 0 1 2 Miles
LEGEND
Working Circle Boundary (Corresponds to Forest Boundary unless otherwise shown)
Block Boundary, Ranger District & Block Boundaries Coincide
II Sawtimber Harvest Unit
Sawtimber Harvest Area
Planned Sawtimber Harvest Roads & Fiscal Year Number
Sawmill
Sawtimber Type Boundary
(Note—Numbers Correspond to Tables in Management Plan)
R.15E.
R.16E.
T.14N.
R.17E.
T.13N.
T.12N.
T.11N.
T.10N.
R.14E.
R.13½E.
GRAPEVINE V
BUCKHORN IV
JOE VI
TOM VII
WILLOW X
WALNUT III
ASPEN IX
BLACK CANYON I
STERMER II
BUCK VIII
68-1
70-5
69-2
73-2
69-4
72-1
69-5
77-3
76-1
73-3
69-3
68-4
74-1
73-4
67-1
76-1
74-5
74-1

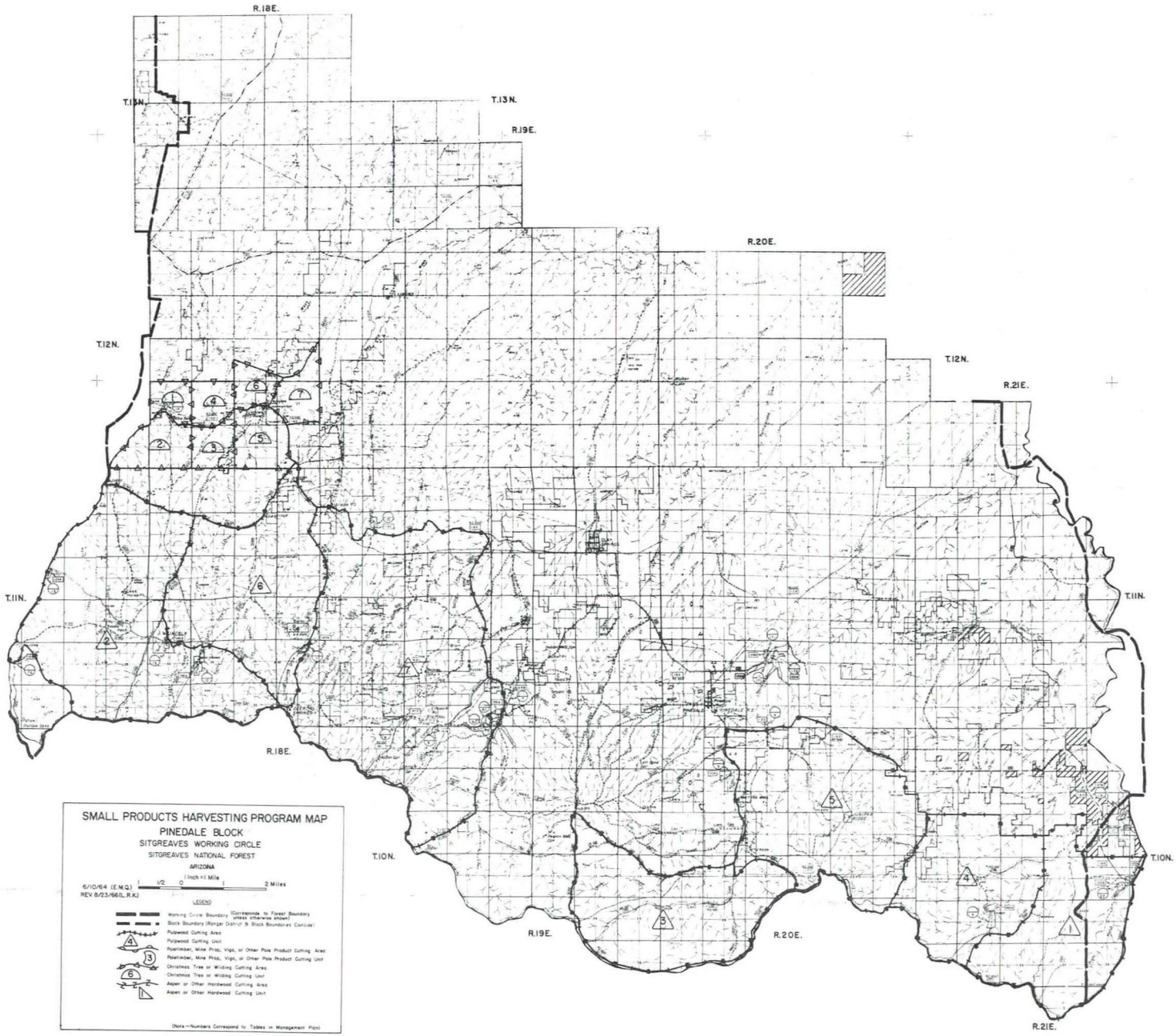

SAWTIMBER HARVEST PROGRAM
AND TRANSPORTATION MAP
LAKESIDE BLOCK
SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST
ARIZONA
1 Inch = 1 Mile
LEGEND
Working Circle Boundary (Corresponds to Forest Boundary unless otherwise shown)
Block Boundary (Ranger District & Block Boundaries Coincide)
II Sawtimber Harvest Unit
Sawtimber Harvest Area
Planned Sawtimber Harvest Roads & Fiscal Year Number
Summit
Sawtimber Type Boundary
(Note—Numbers Correspond to Tables in Management Plan)
R.21E.
R.22E.
R.23E.
R.24E.
R.25E.
T.11N.
T.10N.
T.9N.
MORGAN I
WOLF III
TURKEY II
CHIPMUNK I
75-10
72-7
72-8
73-6
71-5
71-9
69-4
67-3
67-1
67-2

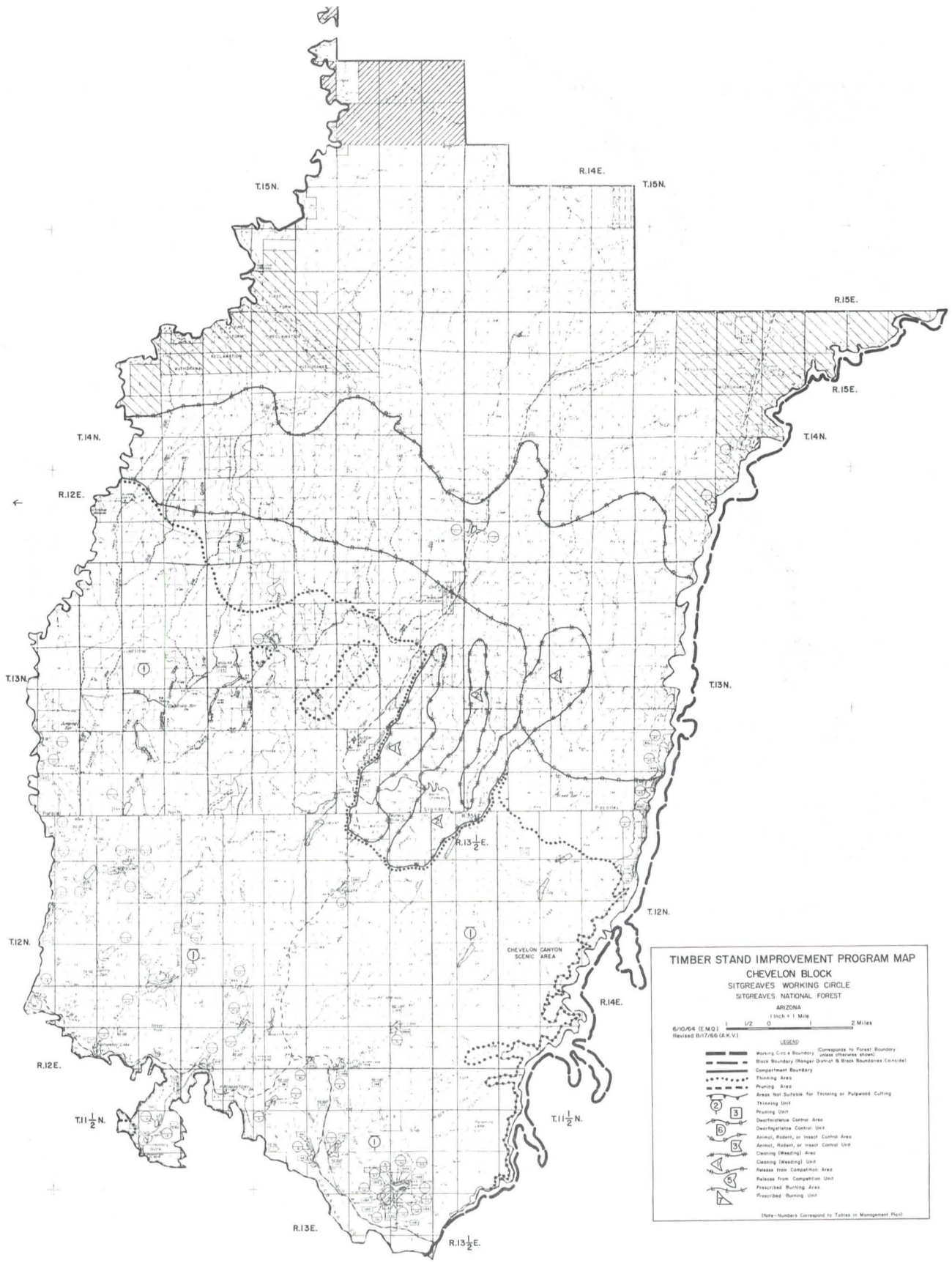

SAWTIMBER HARVEST PROGRAM
AND TRANSPORTATION MAP
PINEDALE BLOCK
SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST
ARIZONA
1 Inch = 1 Mile
LEGEND
R.18E.
T.13N.
R.19E.
R.20E.
T.12N.
R.21E.
T.11N.
T.10N.
HUB III
MORTENSON II
MORGAN I
71-2
72-3
74-4
67-7


R.13E.
R.14E.
T.15N.
R.15E.
T.14N.
R.12E.
T.13N.
R.13½E.
T.12N.
CHEVELON CANYON SCENIC AREA
T.11½N.
SMALL PRODUCTS HARVESTING PROGRAM MAP
CHEVELON BLOCK
SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST
ARIZONA
1 Inch = 1 Mile
6/10/64 (E.M.Q.)
REV. 8/23/66 (L.R.K.)
LEGEND
Working Circle Boundary (Corresponds to Forest Boundary unless otherwise shown)
Block Boundary (Ranger District & Block Boundaries Coincide)
Pulpwood Cutting Area
Pulpwood Cutting Unit
Polelimber, Mine Prop, Viga, or Other Pole Product Cutting Area
Polelimber, Mine Prop, Viga, or Other Pole Product Cutting Unit
Christmas Tree or Wilding Cutting Area
Christmas Tree or Wilding Cutting Unit
Aspen or Other Hardwood Cutting Area
Aspen or Other Hardwood Cutting Unit
(Note—Numbers Correspond to Tables in Management Plan)


R.15E.
R.16E.
T.14N.
T.14N.
R.17E.
T.13N.
T.13N.
R.14E.
T.12N.
T.12N.
T.11N.
R.13½E.
T.11N.
R.13½E.
R.14E.
R.15E.
R.16E.
T.10N.
R.17E.
R.15½E.
SMALL PRODUCTS HARVESTING PROGRAM MAP
HEBER BLOCK
SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST
ARIZONA
1 Inch = 1 Mile
6/10/64 (E.M.Q.)
Rev 8/19/66 (A.K.V.)
LEGEND
Working Circle Boundary (Corresponds to Forest Boundary unless otherwise shown)
Stock Boundary (Ranger District & Stock Boundaries Coincide)
Pulpwood Cutting Area
Pulpwood Cutting Unit
Poletimber, Mine Prop, Vigs, or Other Pole Product Cutting Area
Poletimber, Mine Prop, Vigs, or Other Pole Product Cutting Unit
Christmas Tree or Wilding Cutting Area
Christmas Tree or Wilding Cutting Unit
Aspen or Other Hardwood Cutting Area
Aspen or Other Hardwood Cutting Unit
(Note—Numbers Correspond to Tables in Management Plan)


R.21E.
R.21E.
T.11N.
T.11N.
R.22E.
R.23E.
R.24E.
T.10N.
T.10N.
R.25E.
T.9N.
T.9N.
R.22E.
R.25E.
R.24E.
R.23E.
SMALL PRODUCTS HARVESTING PROGRAM MAP
LAKESIDE BLOCK
SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST
ARIZONA
1 Inch = 1 Mile
1/2 0 2 Miles
6/10/64 (E.M.Q.)
REV. 8/23/66 (L.R.K.)
LEGEND
Working Circle Boundary (Corresponds to Forest Boundary unless otherwise shown)
Block Boundary (Ranger District & Block Boundaries Coincide)
Pulpwood Cutting Area
Pulpwood Cutting Unit
Poletimber, Mine Prop, Vigs, or Other Pole Product Cutting Area
Poletimber, Mine Prop, Vigs, or Other Pole Product Cutting Unit
Christmas Tree or Wilding Cutting Area
Christmas Tree or Wilding Cutting Unit
Aspen or Other Hardwood Cutting Area
Aspen or Other Hardwood Cutting Unit
(Note—Numbers Correspond to Tables in Management Plan)


R.18E.
T.15N.
T.13N.
R.19E.
R.20E.
T.12N.
T.12N.
R.21E.
T.11N.
T.11N.
R.18E.
T.10N.
T.10N.
R.19E.
R.20E.
R.21E.
SMALL PRODUCTS HARVESTING PROGRAM MAP
PINEDALE BLOCK
SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST
ARIZONA
1 Inch = 1 Mile
1/2 0 1 2 Miles
6/10/64 (E.M.Q.)
REV. 8/23/66 (L.R.K.)
LEGEND
Working Circle Boundary (Corresponds to Forest Boundary unless otherwise shown)
Block Boundary (Ranger District & Block Boundaries Coincide)
Pulpwood Cutting Area
Pulpwood Cutting Unit
Poletimber, Mine Prop, Vigil, or Other Pole Product Cutting Area
Poletimber, Mine Prop, Vigil, or Other Pole Product Cutting Unit
Christmas Tree or Wilding Cutting Area
Christmas Tree or Wilding Cutting Unit
Aspen or Other Hardwood Cutting Area
Aspen or Other Hardwood Cutting Unit
(Note—Numbers Correspond to Tables in Management Plan)



TIMBER STAND IMPROVEMENT PROGRAM MAP

CHEVELON BLOCK

SITGREAVES WORKING CIRCLE

SITGREAVES NATIONAL FOREST

ARIZONA

1 Inch = 1 Mile

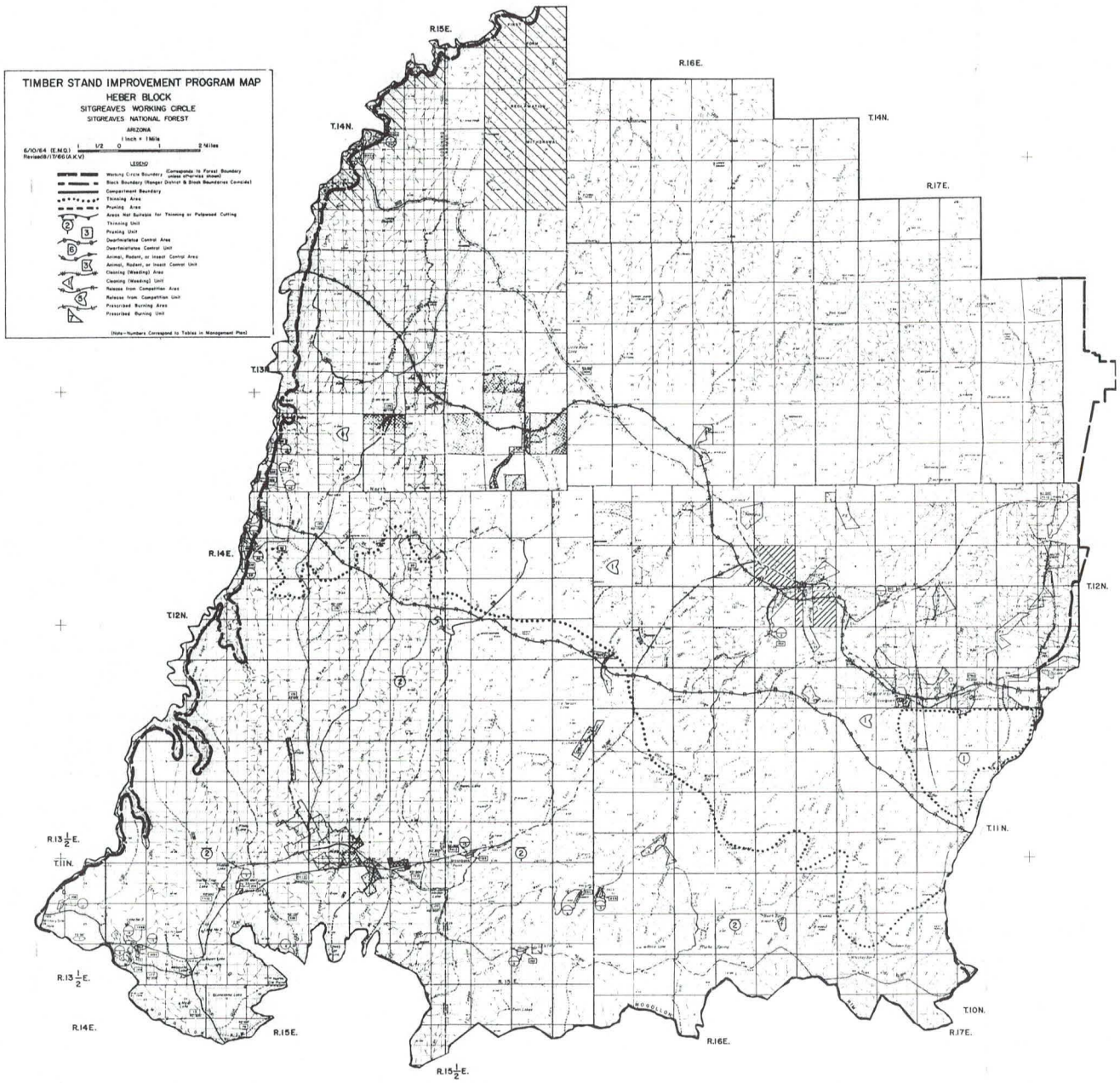
1 1/2 0 1 2 Miles

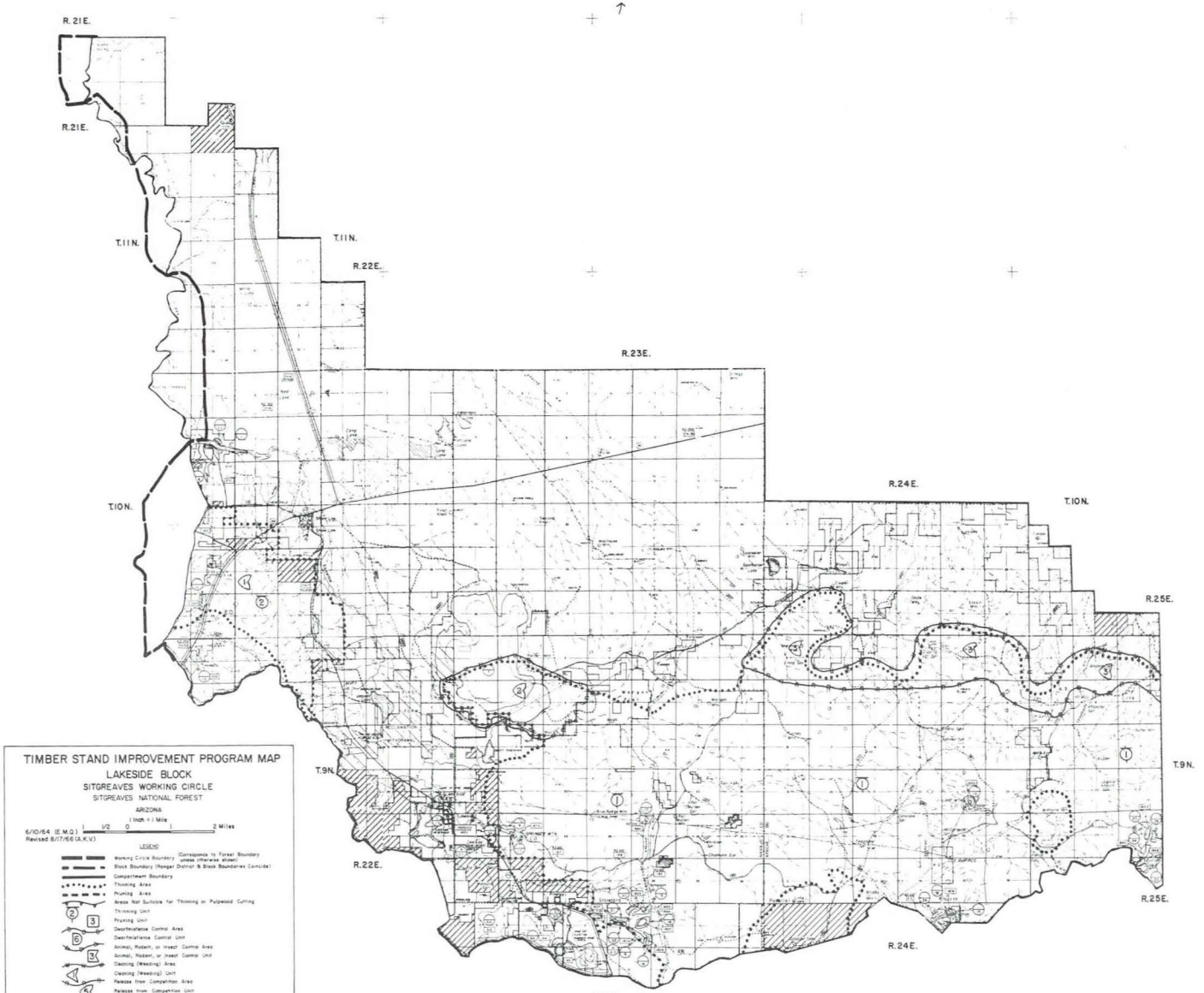
6/10/64 (E.M.Q.)
Revised 8/17/66 (A.K.V.)

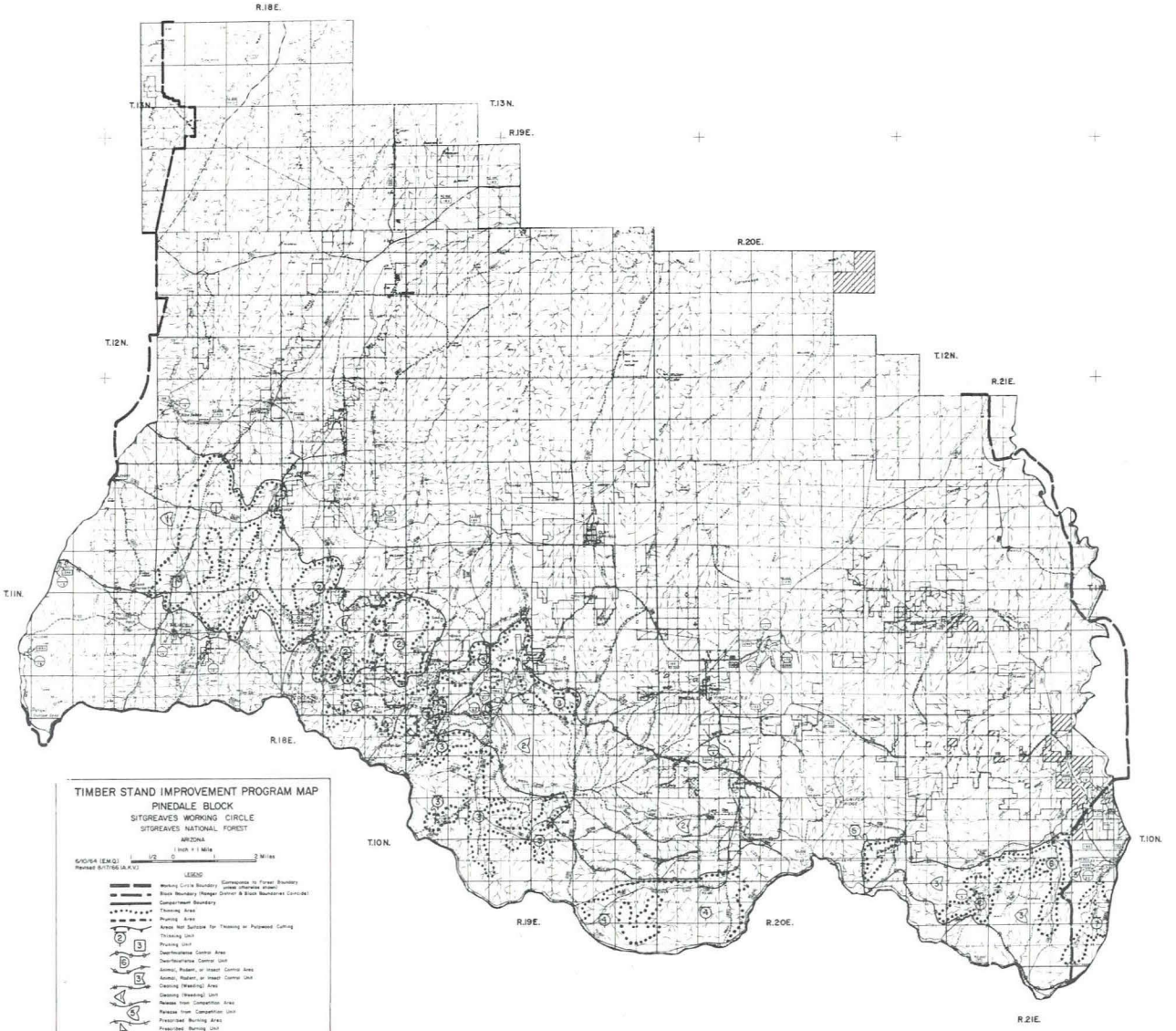
LEGEND

- Working Circle Boundary (Corresponds to Forest Boundary unless otherwise shown)
- Block Boundary (Ranger District & Block Boundaries Coincide)
- Compartment Boundary
- Thinning Area
- Pruning Area
- Areas Not Suitable for Thinning or Pulpwood Cutting
- Thinning Unit
- Pruning Unit
- Dwarfmistletoe Control Area
- Dwarfmistletoe Control Unit
- Animal, Rodent, or Insect Control Area
- Animal, Rodent, or Insect Control Unit
- Cleaning (Weeding) Area
- Cleaning (Weeding) Unit
- Release from Competition Area
- Release from Competition Unit
- Prescribed Burning Area
- Prescribed Burning Unit

(Note—Numbers Correspond to Tables in Management Plan)


TIMBER STAND IMPROVEMENT PROGRAM MAP
HEBER BLOCK
SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST
ARIZONA
1 inch = 1 Mile
6/10/64 (E.M.D.)
Revised 8/17/66 (A.K.W.)
LEGEND
Working Circle Boundary (Corresponds to Forest Boundary unless otherwise shown)
Block Boundary (Ranger District & Block Boundaries Coincide)
Compartment Boundary
Thinning Area
Pruning Area
Areas Not Suitable for Thinning or Pulpwood Cutting
Thinning Unit
Pruning Unit
Overbrowsetta Control Area
Overbrowsetta Control Unit
Animal, Rodent, or Insect Control Area
Animal, Rodent, or Insect Control Unit
Cleaning (Weeding) Area
Cleaning (Weeding) Unit
Release from Competition Area
Release from Competition Unit
Prescribed Burning Area
Prescribed Burning Unit
(Note—Numbers Correspond to Tables in Management Plan)
R.15E.
R.16E.
R.17E.
T.14N.
T.13N.
T.12N.
T.11N.
T.10N.
R.14E.
R.13½E.
R.15½E.
WOODLAND


R.21E.
R.21E.
T.11N.
T.11N.
R.22E.
R.23E.
R.24E.
T.10N.
T.10N.
R.25E.
T.9N.
T.9N.
R.22E.
R.25E.
R.24E.
R.23E.
TIMBER STAND IMPROVEMENT PROGRAM MAP
LAKESIDE BLOCK
SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST
ARIZONA
6/10/64 (E.M.Q.)
Revised 8/17/66 (A.K.V.)
1 Inch = 1 Mile
1/2 0 1 2 Miles
LEGEND
Working Circle Boundary (Corresponds to Forest Boundary unless otherwise shown)
Block Boundary (Ranger District & Block Boundaries Coincide)
Compartment Boundary
Thinning Area
Pruning Area
Areas Not Suitable for Thinning or Pulpwood Cutting
Thinning Unit
Pruning Unit
Deerthistletoe Control Area
Deerthistletoe Control Unit
Animal, Rodent, or Insect Control Area
Animal, Rodent, or Insect Control Unit
Cleaning (Weeding) Area
Cleaning (Weeding) Unit
Release from Competition Area
Release from Competition Unit
Prescribed Burning Area
Prescribed Burning Unit
(Note-Numbers Correspond to Tables in Management Plan)



TIMBER STAND IMPROVEMENT PROGRAM MAP
PINEDALE BLOCK
SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST
ARIZONA

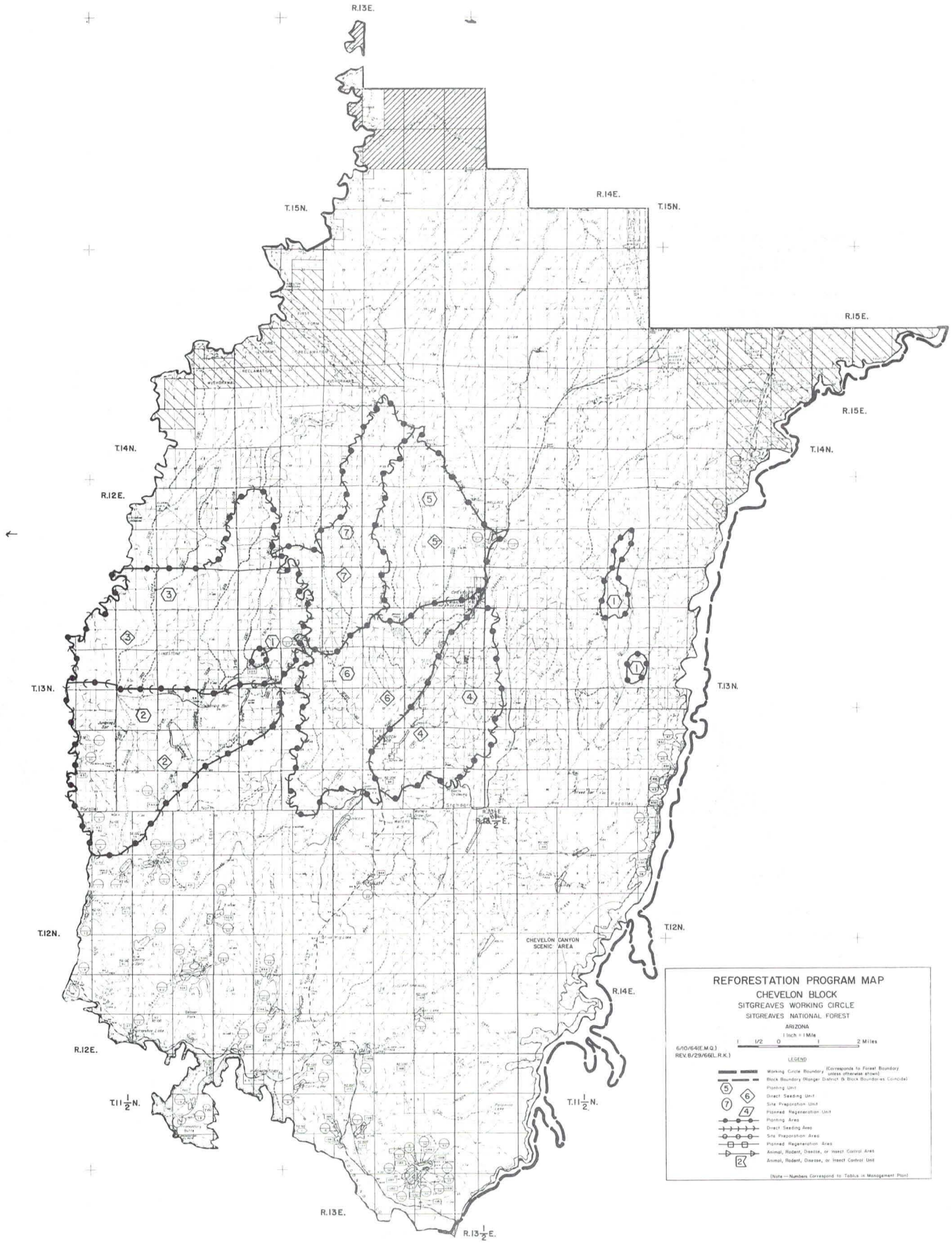
5/10/54 (E.M.Q.)
Revised 8/17/66 (A.K.V.)

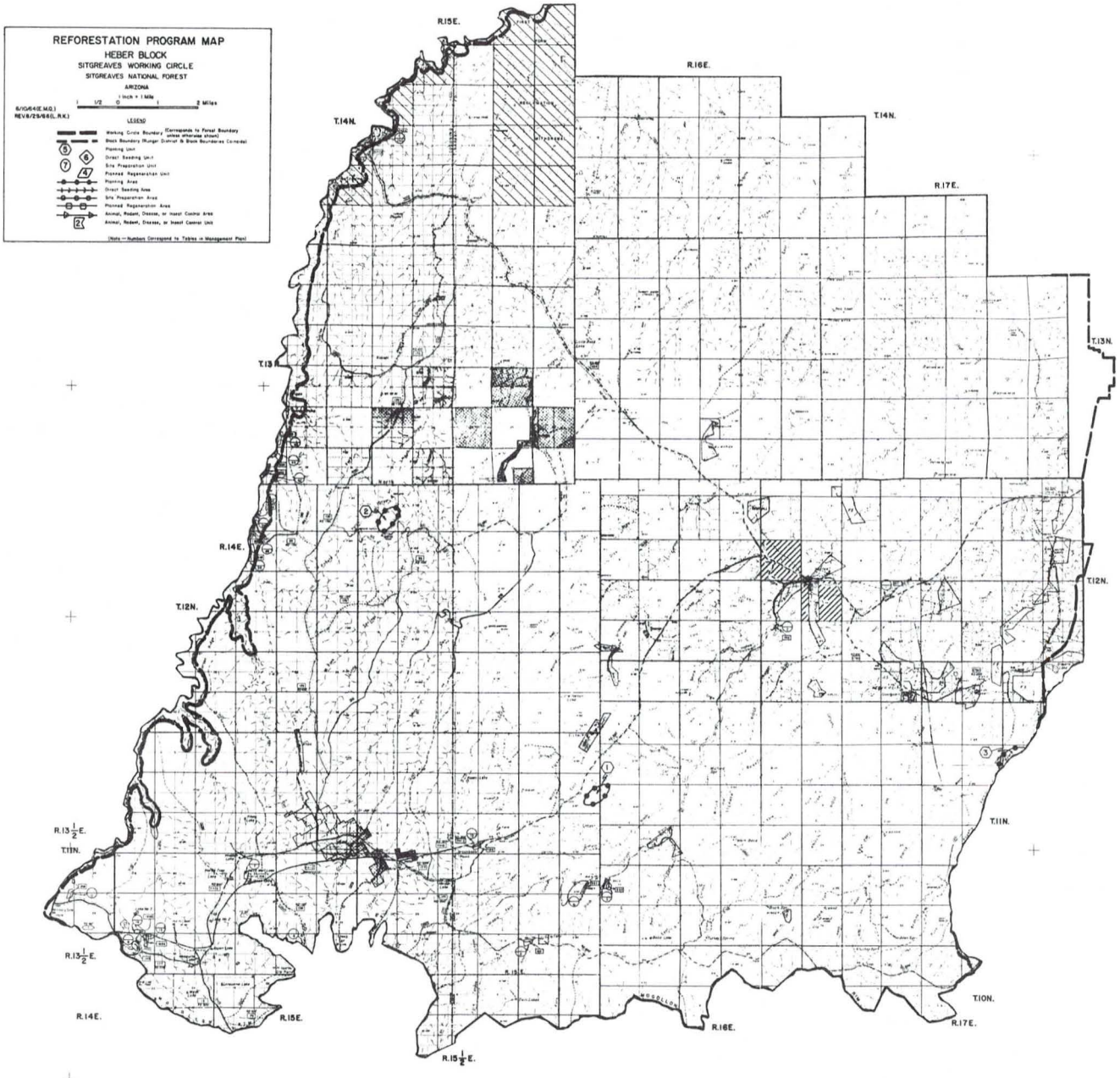
1 Inch = 1 Mile
1/2 0 1 2 Miles

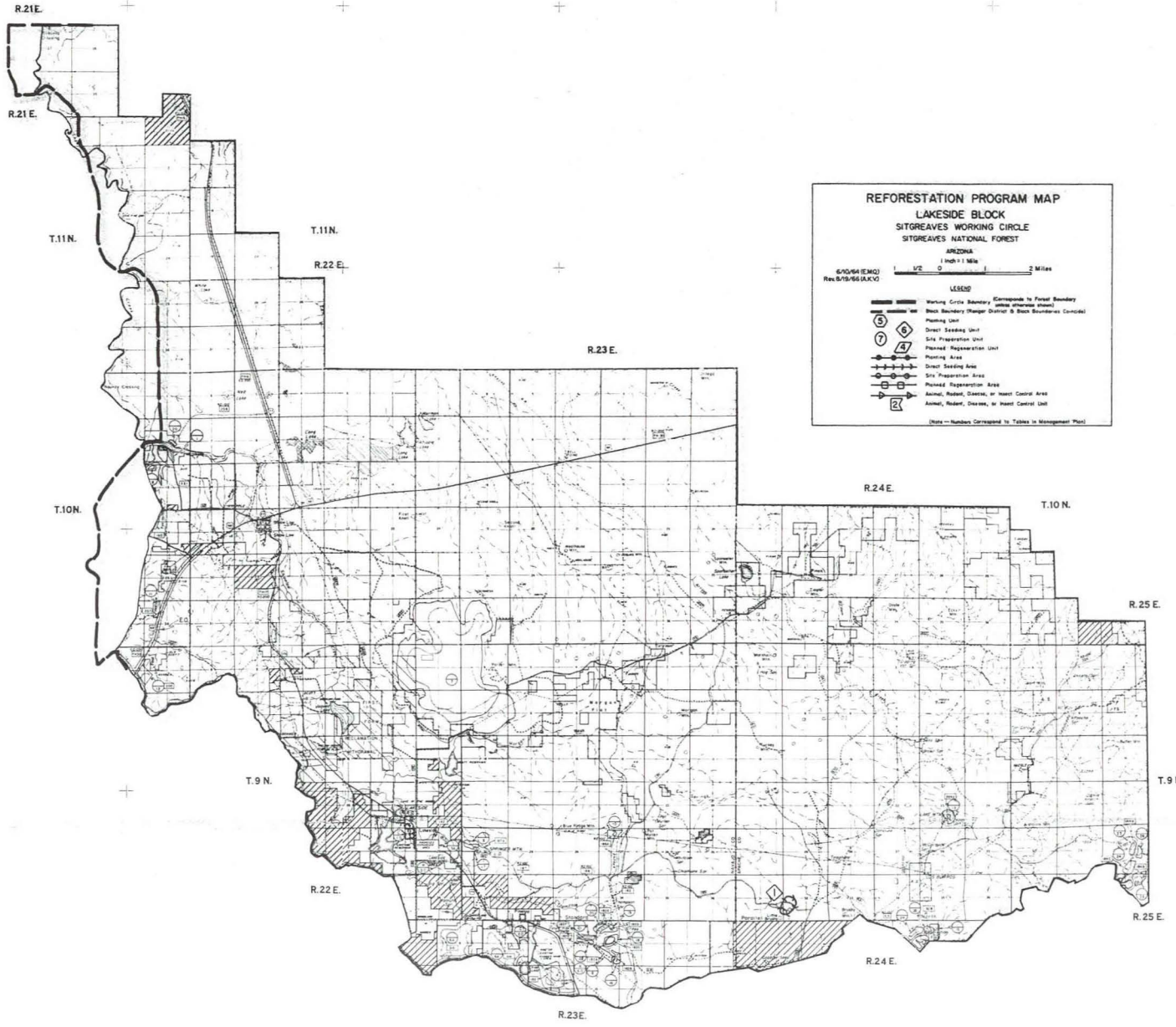
LEGEND

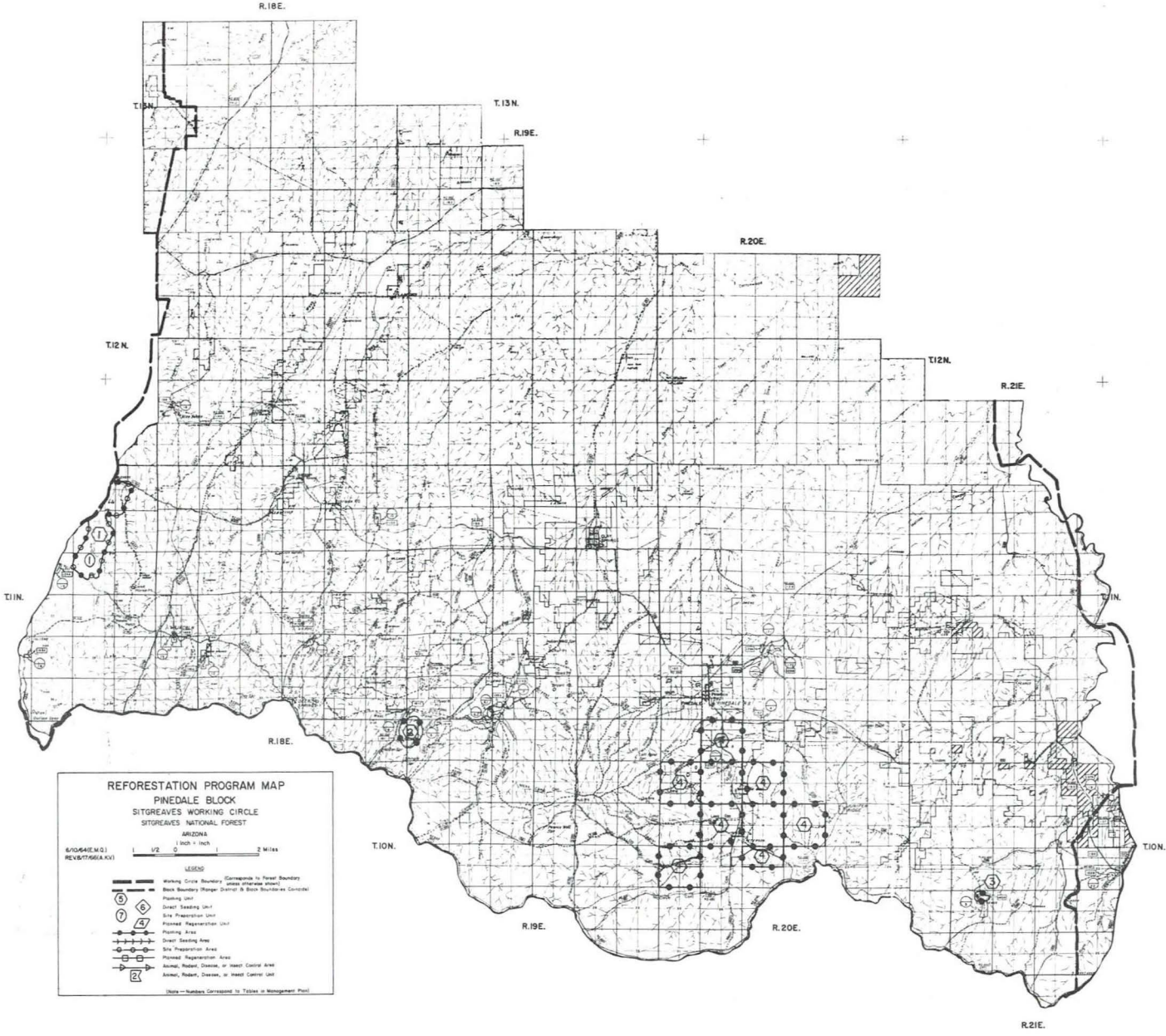
- Working Circle Boundary (Corresponds to Forest Boundary unless otherwise shown)
- Block Boundary (Ranger District & Block Boundaries Coincide)
- Compartment Boundary
- Thinning Area
- Pruning Area
- Areas Not Suitable for Thinning or Pulpwood Cutting
- Thinning Unit
- Pruning Unit
- Dwarfmistletoe Control Area
- Dwarfmistletoe Control Unit
- Animal, Rodent, or Insect Control Area
- Animal, Rodent, or Insect Control Unit
- Cleaning (Weeding) Area
- Cleaning (Weeding) Unit
- Release from Competition Area
- Release from Competition Unit
- Prescribed Burning Area
- Prescribed Burning Unit

(Note—Numbers Correspond to Tables in Management Plan)


R.13E.
T.15N.
R.14E.
T.15N.
R.15E.
R.15E.
T.14N.
T.14N.
R.12E.
T.13N.
T.13N.
R.12½E.
T.12N.
T.12N.
CHEVELON CANYON SCENIC AREA
R.14E.
R.12E.
T.11½N.
T.11½N.
R.13E.
R.13½E.
RECLAMATION
WITHDRAWN
Petrified
REFORESTATION PROGRAM MAP
CHEVELON BLOCK
SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST
ARIZONA
1 Inch = 1 Mile
1 1/2 0 1 2 Miles
6/10/64(E.M.Q.)
REV. 8/29/66(L.R.K.)
LEGEND
Working Circle Boundary (Corresponds to Forest Boundary unless otherwise shown)
Block Boundary (Ranger District & Block Boundaries Coincide)
Planting Unit
Direct Seeding Unit
Site Preparation Unit
Planned Regeneration Unit
Planting Area
Direct Seeding Area
Site Preparation Area
Planned Regeneration Area
Animal, Rodent, Disease, or Insect Control Area
Animal, Rodent, Disease, or Insect Control Unit
(Note — Numbers Correspond to Tables in Management Plan)


REFORESTATION PROGRAM MAP
HEBER BLOCK
SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST
ARIZONA
1 Inch = 1 Mile
1 1/2 0 1 2 Miles
6/10/64(E.M.D.)
REV8/29/66(L.R.K.)
LEGEND
Working Circle Boundary (Corresponds to Forest Boundary unless otherwise shown)
Block Boundary (Munger District & Block Boundaries Coincide)
Planning Unit
Direct Seeding Unit
Site Preparation Unit
Planned Regeneration Unit
Planning Area
Direct Seeding Area
Site Preparation Area
Planned Regeneration Area
Animal, Rodent, Disease, or Insect Control Area
Animal, Rodent, Disease, or Insect Control Unit
(Note — Numbers Correspond to Tables in Management Plan)
R.15E.
R.16E.
R.17E.
T.14N.
T.13N.
T.13
R.14E.
T.12N.
T.11N.
R.13 1/2 E.
R.15 1/2 E.
T.10N.
WOODLAND


R.21E.
R.21 E.
T.11N.
T.11N.
R.22 E.
R.23 E.
R.24 E.
T.10 N.
T.10N.
R.25 E.
T.9 N.
T.9 N.
R.22 E.
R.25 E.
R.24 E.
R.23E.
REFORESTATION PROGRAM MAP
LAKESIDE BLOCK
SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST
ARIZONA
1 Inch = 1 Mile
1/2 0 1 2 Miles
6/10/64 (E.M.Q)
Rev. 8/19/66 (A.K.V)
LEGEND
Working Circle Boundary (Corresponds to Forest Boundary unless otherwise shown)
Block Boundary (Ranger District & Block Boundaries Coincide)
Planting Unit
Direct Seeding Unit
Site Preparation Unit
Planned Regeneration Unit
Planting Area
Direct Seeding Area
Site Preparation Area
Planned Regeneration Area
Animal, Rodent, Disease, or Insect Control Area
Animal, Rodent, Disease, or Insect Control Unit
(Note — Numbers Correspond to Tables in Management Plan)


R.18E.
T.15N.
T.13N.
R.19E.
R.20E.
T.12N.
T.12N.
R.21E.
T.11N.
T.11N.
R.18E.
T.10N.
T.10N.
R.19E.
R.20E.
R.21E.
REFORESTATION PROGRAM MAP
PINEDALE BLOCK
SITGREAVES WORKING CIRCLE
SITGREAVES NATIONAL FOREST
ARIZONA
6/10/64(E.M.Q.)
REVS/17/66(A.K.V.)
1 Inch = Inch
1/2 0 1 2 Miles
LEGEND
Working Circle Boundary (Corresponds to Forest Boundary unless otherwise shown)
Block Boundary (Ranger District & Block Boundaries Coincide)
Planting Unit
Direct Seeding Unit
Site Preparation Unit
Planned Regeneration Unit
Planting Area
Direct Seeding Area
Site Preparation Area
Planned Regeneration Area
Animal, Rodent, Disease, or Insect Control Area
Animal, Rodent, Disease, or Insect Control Unit
(Note — Numbers Correspond to Tables in Management Plan)

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

PERIODIC TIMBER MANAGEMENT PLANNING REPORT

REGION [2-3]	FOREST [4-5]	WORKING CIRCLE [6]
Southwestern 03	Sitgreaves 11	Sitgreaves Forest 1
CLASS [7]	**STATE [8-9]**	**INVENTORY YEAR [10-11]**
Softwoods 1	Arizona 02	65

NET INVENTORY AND NET PERIODIC ANNUAL GROWTH ON NONRESERVED COMMERCIAL NATIONAL FOREST LAND

BLOCK A--CARD CODE 1

	SAWTIMBER	OTHER PRODUCTS	GROWING STOCK
1. INVENTORY: a. Local Scale *(100 MBF)*	[12-17] 018171		
b. Int. ¼" Rule *(100 MBF)*	[18-23] 020897		
c. Cubic Measure *(100 MCF)*	[24-29] 004146	[30-34] 01227	[35-40] 005373
d. Stacked Measure *(100 Cds.)*		[41-45] 17039	
2. NET GROWTH: a. Local Scale *(100 MBF)*	[46-50] 00209		
b. Cubic Measure *(100 MCF)*	[51-55] 00048	[56-59] 0093	[60-64] 00141
3. MORTALITY: Cubic Measure *(100 MCF)*	[65-69] 00037	[70-73] 0005	[74-78] 00042

AREA AND INVENTORY ON PRODUCTIVE RESERVED AND COMMERCIAL NATIONAL FOREST LAND

BLOCK B--CARD CODE 2

	PRODUCTIVE RESERVED	UNREGULATED	MODIFIED LANDSCAPE	NON-MODIFIED
1. AREA *(100 Acres)*	[12-16] 00000	[17-21] 00000	[22-26] 00572	[27-32] 003652
2. SAWTIMBER *(100 MBF)*	[33-37] 00000	[38-42] 00000	[43-47] 02432	[48-53] 015739
3. GROWING STOCK *(100 MCF)*	[54-58] 00000	[59-63] 00000	[64-68] 00760	[69-74] 004613
4. OPTIONAL SPACE	SPECIFY [75-77] 000		SPECIFY [78-80] 000	

REGULATED ALLOWABLE ANNUAL CUT AND UNREGULATED MATERIAL AVAILABLE ANNUALLY

BLOCK C--CARD CODE 3

	AREA *(100 Acres)*	SAWTIMBER *(100 MBF)*	OTHER PROD. *(100 CDS)*
1. INTERMEDIATE	[12-15] 0407	[16-19] 0000	[20-23] 0389
2. SALVAGE	[24-26] 000	[27-29] 130	[30-32] 000
3. REGENERATION			
a. Group, Patch, Strip, Stand	[33-35] 000	[36-39] 0000	[40-43] 0000
b. Shelterwood, Seedtree			
(1) Preparatory, Seed	[44-46] 175	[47-49] 435	[50-52] 149
(2) Removal	[53-55] 028	[56-58] 127	[59-61] 044
c, Selection	[62-64] 000	[65-67] 000	[68-70] 000
4. UNREGULATED		[71-74] 0000	[75-78] 0010

	DATE	SIGNATURE	TITLE
PREPARED	10/25/66	James W. Thorne JAMES W. THORNE	Forester
AUDITED	10/25/66	James W. Thorne JAMES W. THORNE	Forester

2400-26 (6/64)

GPO 882-006

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

PERIODIC TIMBER MANAGEMENT PLANNING REPORT

REGION (3)	FOREST [4-5]	WORKING CIRCLE [6]
Southwestern 3	Sitgreaves 11	Sitgreaves Forest 1
District (2) Chevelon 1	CLASS [7] Softwoods 1	STATE [8-9] Arizona 02
		INVENTORY YEAR [10-11] 65

NET INVENTORY AND NET PERIODIC ANNUAL GROWTH ON NONRESERVED COMMERCIAL NATIONAL FOREST LAND

BLOCK A--CARD CODE 1

	SAWTIMBER	OTHER PRODUCTS	GROWING STOCK
1. INVENTORY: a. Local Scale *(100 MBF)*	[12-17] 006759		
b. Int. ¼" Rule *(100 MBF)*	[18-23] 007773		
c. Cubic Measure *(100 MCF)*	[24-29] 001537	[30-34] 00309	[35-40] 001846
d. Stocked Measure *(100 Cds.)*		[41-45] 04285	
2. NET GROWTH: a. Local Scale *(100 MBF)*	[46-50] 00062		
b. Cubic Measure *(100 MCF)*	[51-55] 00014	[56-59] 0028	[60-64] 00042
3. MORTALITY: Cubic Measure *(100 MCF)*	[65-69] 00011	[70-73] 0002	[74-78] 00013

AREA AND INVENTORY ON PRODUCTIVE RESERVED AND COMMERCIAL NATIONAL FOREST LAND

BLOCK B--CARD CODE 2

	PRODUCTIVE RESERVED	UNREGULATED	MODIFIED LANDSCAPE	NON-MODIFIED
1. AREA *(100 Acres)*	[12-16] 00000	[17-21] 00000	[22-26] 00204	[27-32] 001105
2. SAWTIMBER *(100 MBF)*	[33-37] 00000	[38-42] 00000	[43-47] 00946	[48-53] 005813
3. GROWING STOCK *(100 MCF)*	[54-58] 00000	[59-63] 00000	[64-68] 00266	[69-74] 001580
4. OPTIONAL SPACE	SPECIFY [75-77] 000		SPECIFY [78-] 0	

REGULATED ALLOWABLE ANNUAL CUT AND UNREGULATED MATERIAL AVAILABLE ANNUALLY

BLOCK C--CARD CODE 3

	AREA *(100 Acres)*	SAWTIMBER *(100 MBF)*	OTHER PROD. *(100 CDS)*
1. INTERMEDIATE	[12-15] 0118	[16-19] 0000	[20-23] 0095
2. SALVAGE	[24-26] 000	[27-29] 036	[30-32] 000
3. REGENERATION			
a. Group, Patch, Strip, Stand	[33-35] 000	[36-39] 0000	[40-43] 0000
b. Shelterwood, Seedtree			
(1) Preparatory, Seed	[44-46] 053	[47-49] 184	[50-52] 056
(2) Removal	[53-55] 006	[56-58] 026	[59-61] 016
c. Selection	[62-64] 000	[65-67] 000	[68-70] 000
4. UNREGULATED		[71-74] 0000	[75-78] 0002

	DATE	SIGNATURE	TITLE
PREPARED	10/25/66	JAMES W. THORNE	Forester
AUDITED	10/25/66	JAMES W. THORNE	Forester

2400-28 (5/64)
R-3 Revision 3/65

County (79-80) Coconino 03

GPO 878-637

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

PERIODIC TIMBER MANAGEMENT PLANNING REPORT

REGION (3)	FOREST [4-5]	WORKING CIRCLE [6]
Southwestern 3	Sitgreaves 11	Sitgreaves Forest 1

District (2) Heber 2

CLASS [7]	STATE [8-9]	INVENTORY YEAR [10-11]
Softwoods 1	Arizona 02	65

NET INVENTORY AND NET PERIODIC ANNUAL GROWTH ON NONRESERVED COMMERCIAL NATIONAL FOREST LAND

BLOCK A--CARD CODE 1

	SAWTIMBER	OTHER PRODUCTS	GROWING STOCK
1. INVENTORY: a. Local Scale (100 MBF)	[12-17] 002858		
b. Int. ¼" Rule (100 MBF)	[18-23] 003287		
c. Cubic Measure (100 MCF)	[24-29] 000649	[30-34] 00181	[35-40] 000830
d. Stocked Measure (100 Cds.)		[41-45] 02516	
2. NET GROWTH: a. Local Scale (100 MBF)	[46-50] 00031		
b. Cubic Measure (100 MCF)	[51-55] 00007	[56-59] 0014	[60-64] 00021
3. MORTALITY: Cubic Measure (100 MCF)	[65-69] 00005	[70-73] 0001	[74-78] 00006

AREA AND INVENTORY ON PRODUCTIVE RESERVED AND COMMERCIAL NATIONAL FOREST LAND

BLOCK B--CARD CODE 2

	PRODUCTIVE RESERVED	UNREGULATED	MODIFIED LANDSCAPE	NON-MODIFIED
1. AREA (100 Acres)	[12-16] 00000	[17-21] 00000	[22-26] 00162	[27-32] 000447
2. SAWTIMBER (100 MBF)	[33-37] 00000	[38-42] 00000	[43-47] 00795	[48-53] 002063
3. GROWING STOCK (100 MCF)	[54-58] 00000	[59-63] 00000	[64-68] 00254	[69-74] 000576
4. OPTIONAL SPACE	SPECIFY [75-77] 000		SPECIFY [78-] 0	

REGULATED ALLOWABLE ANNUAL CUT AND UNREGULATED MATERIAL AVAILABLE ANNUALLY

BLOCK C--CARD CODE 3

	AREA (100 Acres)	SAWTIMBER (100 MBF)	OTHER PROD. (100 CDS)
1. INTERMEDIATE	[12-15] 0059	[16-19] 0000	[20-23] 0057
2. SALVAGE	[24-26] 000	[27-29] 019	[30-32] 000
3. REGENERATION			
a. Group, Patch, Strip, Stand	[33-35] 000	[36-39] 0000	[40-43] 0000
b. Shelterwood, Seedtree			
(1) Preparatory, Seed	[44-46] 025	[47-49] 092	[50-52] 032
(2) Removal	[53-55] 004	[56-58] 028	[59-61] 009
c. Selection	[62-64] 000	[65-67] 000	[68-70] 000
4. UNREGULATED		[71-74] 0000	[75-78] 0000

	DATE	SIGNATURE	TITLE
PREPARED	10/25/66	James W. Thorne JAMES W. THORNE	Forester
AUDITED	10/25/66	James W. Thorne JAMES W. THORNE	Forester

2400-80 (6/64)
R-3 Revision 3/65

County (79-80) Coconino 03

GPO 875-637

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

PERIODIC TIMBER MANAGEMENT PLANNING REPORT

District (2) Heber 2

REGION (3)	FOREST [4-5]	WORKING CIRCLE [6]
Southwestern 3	Sitgreaves 11	Sitgreaves Forest 1
CLASS [7]	**STATE [8-9]**	**INVENTORY YEAR [10-11]**
Softwoods 1	Arizona 02	65

NET INVENTORY AND NET PERIODIC ANNUAL GROWTH ON NONRESERVED COMMERCIAL NATIONAL FOREST LAND

BLOCK A—CARD CODE 1

	SAWTIMBER	OTHER PRODUCTS	GROWING STOCK
1. INVENTORY: a. Local Scale *(100 MBF)*	[12-17] 003637		
b. Int. ¼" Rule *(100 MBF)*	[18-23] 004182		
c. Cubic Measure *(100 MCF)*	[24-29] 000828	[30-34] 00261	[35-40] 001089
d. Stocked Measure *(100 Cds.)*		[41-45] 03620	
2. NET GROWTH: a. Local Scale *(100 MBF)*	[46-50] 00045		
b. Cubic Measure *(100 MCF)*	[51-55] 00010	[56-59] 0020	[60-64] 00030
3. MORTALITY: Cubic Measure *(100 MCF)*	[65-69] 00008	[70-73] 0001	[74-78] 00009

AREA AND INVENTORY ON PRODUCTIVE RESERVED AND COMMERCIAL NATIONAL FOREST LAND

BLOCK B—CARD CODE 2

	PRODUCTIVE RESERVED	UNREGULATED	MODIFIED LANDSCAPE	NON-MODIFIED
1. AREA *(100 Acres)*	[12-16] 00000	[17-21] 00000	[22-26] 00091	[27-32] 000792
2. SAWTIMBER *(100 MBF)*	[33-37] 00000	[38-42] 00000	[43-47] 00283	[48-53] 003354
3. GROWING STOCK *(100 MCF)*	[54-58] 00000	[59-63] 00000	[64-68] 00109	[69-74] 000980
4. OPTIONAL SPACE	SPECIFY [75-77] 000		SPECIFY [78-] 0	

REGULATED ALLOWABLE ANNUAL CUT AND UNREGULATED MATERIAL AVAILABLE ANNUALLY

BLOCK C—CARD CODE 3

	AREA *(100 Acres)*	SAWTIMBER *(100 MBF)*	OTHER PROD. *(100 CDS)*
1. INTERMEDIATE	[12-15] 0087	[16-19] 0000	[20-23] 0083
2. SALVAGE	[24-26] 000	[27-29] 029	[30-32] 000
3. REGENERATION			
a. Group, Patch, Strip, Stand	[33-35] 000	[36-39] 0000	[40-43] 0000
b. Shelterwood, Seedtree			
(1) Preparatory, Seed	[44-46] 037	[47-49] 113	[50-52] 041
(2) Removal	[53-55] 007	[56-58] 042	[59-61] 012
c. Selection	[62-64] 000	[65-67] 000	[68-70] 000
4. UNREGULATED		[71-74] 0000	[75-78] 0003

	DATE	SIGNATURE	TITLE
PREPARED	10/25/66	James W. Thorne JAMES W. THORNE	Forester
AUDITED	10/25/66	James W. Thorne JAMES W. THORNE	Forester

2400-80 (6/64)
R-3 Revision 3/65

Navajo County (79-80) 09

GPO 875-637

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

PERIODIC TIMBER MANAGEMENT PLANNING REPORT

District (2) Lake-side 3

REGION (3)	FOREST [4-5]	WORKING CIRCLE [6]
Southwestern 3	Sitgreaves 11	Sitgreaves Forest 1
CLASS [7]	**STATE [8-9]**	**INVENTORY YEAR [10-11]**
Softwoods 1	Arizona . 02	65

NET INVENTORY AND NET PERIODIC ANNUAL GROWTH ON NONRESERVED COMMERCIAL NATIONAL FOREST LAND

BLOCK A—CARD CODE 1

	SAWTIMBER	OTHER PRODUCTS	GROWING STOCK
1. INVENTORY: a. Local Scale *(100 MBF)*	[12-17] 001380		
b. Int. ¼" Rule *(100 MBF)*	[18-23] 001588		
c. Cubic Measure *(100 MCF)*	[24-29] 000312	[30-34] 00099	[35-40] 000411
d. Stocked Measure *(100 Cds.)*		[41-45] 01382	
2. NET GROWTH: a. Local Scale *(100 MBF)*	[46-50] 00017		
b. Cubic Measure *(100 MCF)*	[51-55] 00004	[56-59] 0007	[60-64] 00011
3. MORTALITY: Cubic Measure *(100 MCF)*	[65-69] 00003	[70-73] 0000	[74-78] 00003

AREA AND INVENTORY ON PRODUCTIVE RESERVED AND COMMERCIAL NATIONAL FOREST LAND

BLOCK B—CARD CODE 2

	PRODUCTIVE RESERVED	UNREGULATED	MODIFIED LANDSCAPE	NON-MODIFIED
1. AREA *(100 Acres)*	[12-16] 00000	[17-21] 00000	[22-26] 00012	[27-32] 000318
2. SAWTIMBER *(100 MBF)*	[33-37] 00000	[38-42] 00000	[43-47] 00084	[48-53] 001296
3. GROWING STOCK *(100 MCF)*	[54-58] 00000	[59-63] 00000	[64-68] 00023	[69-74] 000388
4. OPTIONAL SPACE	SPECIFY [75-77] 000		SPECIFY [78-] 0	

REGULATED ALLOWABLE ANNUAL CUT AND UNREGULATED MATERIAL AVAILABLE ANNUALLY

BLOCK C—CARD CODE 3

	AREA *(100 Acres)*	SAWTIMBER *(100 MBF)*	OTHER PROD. *(100 CDS)*
1. INTERMEDIATE	[12-15] 0034	[16-19] 0000	[20-23] 0032
2. SALVAGE	[24-26] 000	[27-29] 011	[30-32] 000
3. REGENERATION			
a. Group, Patch, Strip, Stand	[33-35] 000	[36-39] 0000	[40-43] 0000
b. Shelterwood, Seedtree			
(1) Preparatory, Seed	[44-46] 014	[47-49] 015	[50-52] 007
(2) Removal	[53-55] 003	[56-58] 011	[59-61] 002
c. Selection	[62-64] 000	[65-67] 000	[68-70] 000
4. UNREGULATED		[71-74] 0000	[75-78] 0000

	DATE	SIGNATURE	TITLE
PREPARED	10/25/66	JAMES W. THORNE	Forester
AUDITED	10/25/66	JAMES W. THORNE	Forester

2400-00 (12/64)
R-3 Revision 3/65

County (79-80) Apache 01

GPO 875-637

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

PERIODIC TIMBER MANAGEMENT PLANNING REPORT

REGION (3)	FOREST [4-5]	WORKING CIRCLE [6]
Southwestern 3	Sitgreaves 11	Sitgreaves Forest 1
District (2) Lake-side 3	CLASS [7] Softwoods 1	STATE [8-9] Arizona 02	INVENTORY YEAR [10-11] 65

NET INVENTORY AND NET PERIODIC ANNUAL GROWTH ON NONRESERVED COMMERCIAL NATIONAL FOREST LAND

BLOCK A--CARD CODE 1

	SAWTIMBER	OTHER PRODUCTS	GROWING STOCK
1. INVENTORY: a. Local Scale (100 MBF)	[12-17] 001162		
b. Int. ¼" Rule (100 MBF)	[18-23] 001336		
c. Cubic Measure (100 MCF)	[24-29] 000266	[30-34] 00099	[35-40] 000365
d. Stocked Measure (100 Cds.)		[41-45] 01374	
2. NET GROWTH: a. Local Scale (100 MBF)	[46-50] 00016		
b. Cubic Measure (100 MCF)	[51-55] 00004	[56-59] 0007	[60-64] 00011
3. MORTALITY: Cubic Measure (100 MCF)	[65-69] 00003	[70-73] 0000	[74-78] 00003

AREA AND INVENTORY ON PRODUCTIVE RESERVED AND COMMERCIAL NATIONAL FOREST LAND

BLOCK B--CARD CODE 2

	PRODUCTIVE RESERVED	UNREGULATED	MODIFIED LANDSCAPE	NON-MODIFIED
1. AREA (100 Acres)	[12-16] 00000	[17-21] 00000	[22-26] 00070	[27-32] 000260
2. SAWTIMBER (100 MBF)	[33-37] 00000	[38-42] 00000	[43-47] 00235	[48-53] 000927
3. GROWING STOCK (100 MCF)	[54-58] 00000	[59-63] 00000	[64-68] 00074	[69-74] 000291
4. OPTIONAL SPACE	SPECIFY [75-77] 000		SPECIFY [78-] 0	

REGULATED ALLOWABLE ANNUAL CUT AND UNREGULATED MATERIAL AVAILABLE ANNUALLY

BLOCK C--CARD CODE 3

	AREA (100 Acres)	SAWTIMBER (100 MBF)	OTHER PROD. (100 CDS)
1. INTERMEDIATE	[12-15] 0033	[16-19] 0000	[20-23] 0032
2. SALVAGE	[24-26] 000	[27-29] 010	[30-32] 000
3. REGENERATION			
a. Group, Patch, Strip, Stand	[33-35] 000	[36-39] 0000	[40-43] 0000
b. Shelterwood, Seedtree			
(1) Preparatory, Seed	[44-46] 014	[47-49] 018	[50-52] 008
(2) Removal	[53-55] 002	[56-58] 013	[59-61] 003
c. Selection	[62-64] 000	[65-67] 000	[68-70] 000
4. UNREGULATED		[71-74] 0000	[75-78] 0001

	DATE	SIGNATURE	TITLE
PREPARED	10/25/66	JAMES W. THORNE	Forester
AUDITED	10/25/66	JAMES W. THORNE	Forester

2400-20 (6/64)
R-3 Revision 3/65

County (79-80) Navajo 09

GPO 878-637

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

PERIODIC TIMBER MANAGEMENT PLANNING REPORT

District (2) Pine-dale 4

REGION (3)	FOREST [4-5]	WORKING CIRCLE [6]
Southwestern 3	Sitgreaves 11	Sitgreaves Forest 1
CLASS [7]	**STATE [8-9]**	**INVENTORY YEAR [10-11]**
Softwoods 1	Arizona 02	65

NET INVENTORY AND NET PERIODIC ANNUAL GROWTH ON NONRESERVED COMMERCIAL NATIONAL FOREST LAND

BLOCK A--CARD CODE 1

	SAWTIMBER	OTHER PRODUCTS	GROWING STOCK
1. INVENTORY: a. Local Scale *(100 MBF)*	[12-17] 002375		
b. Int. ¼" Rule *(100 MBF)*	[18-23] 002731		
c. Cubic Measure *(100 MCF)*	[24-29] 000554	[30-34] 00278	[35-40] 000832
d. Stocked Measure *(100 Cds.)*		[41-45] 03862	
2. NET GROWTH: a. Local Scale *(100 MBF)*	[46-50] 00038		
b. Cubic Measure *(100 MCF)*	[51-55] 00009	[56-59] 0017	[60-64] 00026
3. MORTALITY: Cubic Measure *(100 MCF)*	[65-69] 00007	[70-73] 0001	[74-78] 00008

AREA AND INVENTORY ON PRODUCTIVE RESERVED AND COMMERCIAL NATIONAL FOREST LAND

BLOCK B--CARD CODE 2

	PRODUCTIVE RESERVED	UNREGULATED	MODIFIED LANDSCAPE	NON-MODIFIED
1. AREA *(100 Acres)*	[12-16] 00000	[17-21] 00000	[22-26] 00033	[27-32] 000730
2. SAWTIMBER *(100 MBF)*	[33-37] 00000	[38-42] 00000	[43-47] 00089	[48-53] 002286
3. GROWING STOCK *(100 MCF)*	[54-58] 00000	[59-63] 00000	[64-68] 00034	[69-74] 000798
4. OPTIONAL SPACE	SPECIFY	[75-77] 000	SPECIFY	[78-] 0

REGULATED ALLOWABLE ANNUAL CUT AND UNREGULATED MATERIAL AVAILABLE ANNUALLY

BLOCK C--CARD CODE 3

	AREA *(100 Acres)*	SAWTIMBER *(100 MBF)*	OTHER PROD. *(100 CDS)*
1. INTERMEDIATE	[12-15] 0076	[16-19] 0000	[20-23] 0090
2. SALVAGE	[24-26] 000	[27-29] 025	[30-32] 000
3. REGENERATION			
a. Group, Patch, Strip, Stand	[33-35] 000	[36-39] 0000	[40-43] 0000
b. Shelterwood, Seedtree			
(1) Preparatory, Seed	[44-46] 032	[47-49] 013	[50-52] 005
(2) Removal	[53-55] 006	[56-58] 007	[59-61] 002
c. Selection	[62-64] 000	[65-67] 000	[68-70] 000
4. UNREGULATED		[71-74] 0000	[75-78] 0004

	DATE	SIGNATURE	TITLE
PREPARED	10/25/66	JAMES W. THORNE	Forester
AUDITED	10/25/66	JAMES W. THORNE	Forester

2400-26 (6/64)
R-3 Revision 3/65

County (79-80) Navajo 09

GPO 878-837

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

PERIODIC TIMBER MANAGEMENT PLANNING REPORT

REGION [2-3]	FOREST [4-5]	WORKING CIRCLE [6]
Southwestern 03	Sitgreaves 11	Sitgreaves Forest 1
CLASS [7]	**STATE [8-9]**	**INVENTORY YEAR [10-11]**
Hardwoods 2	Arizona 02	65

NET INVENTORY AND NET PERIODIC ANNUAL GROWTH ON NONRESERVED COMMERCIAL NATIONAL FOREST LAND

BLOCK A--CARD CODE 1

	SAWTIMBER	OTHER PRODUCTS	GROWING STOCK
1. INVENTORY: a. Local Scale *(100 MBF)*	[12-17] 00178		
b. Int. ¼" Rule *(100 MBF)*	[18-23] 00205		
c. Cubic Measure *(100 MCF)*	[24-29] 00032	[30-34] 00023	[35-40] 00055
d. Stacked Measure *(100 Cds.)*		[41-45] 00325	
2. NET GROWTH: a. Local Scale *(100 MBF)*	[46-50] 00001		
b. Cubic Measure *(100 MCF)*	[51-55] 00000	[56-59] 0000	[60-64] 00000
3. MORTALITY: Cubic Measure *(100 MCF)*	[65-69] 00000	[70-73] 0000	[74-78] 00000

AREA AND INVENTORY ON PRODUCTIVE RESERVED AND COMMERCIAL NATIONAL FOREST LAND

BLOCK B--CARD CODE 2

	PRODUCTIVE RESERVED	UNREGULATED	MODIFIED LANDSCAPE	NON-MODIFIED
1. AREA *(100 Acres)*	[12-16] 00000	[17-21] 00000	[22-26] 00013	[27-32] 000000
2. SAWTIMBER *(100 MBF)*	[33-37] 00000	[38-42] 00000	[43-47] 00112	[48-53] 000066
3. GROWING STOCK *(100 MCF)*	[54-58] 00000	[59-63] 00000	[64-68] 00035	[69-74] 000020
4. OPTIONAL SPACE	SPECIFY	[75-77] 000	SPECIFY	[78-80] 000

REGULATED ALLOWABLE ANNUAL CUT AND UNREGULATED MATERIAL AVAILABLE ANNUALLY

BLOCK C--CARD CODE 3

	AREA *(100 Acres)*	SAWTIMBER *(100 MBF)*	OTHER PROD. *(100 CDS)*
1. INTERMEDIATE	[12-15] 0000	[16-19] 0000	[20-23] 0000
2. SALVAGE	[24-26] 000	[27-29] 000	[30-32] 000
3. REGENERATION			
a. Group, Patch, Strip, Stand	[33-35] 000	[36-39] 0000	[40-43] 0000
b. Shelterwood, Seedtree			
(1) Preparatory, Seed	[44-46] 000	[47-49] 000	[50-52] 000
(2) Removal	[53-55] 000	[56-58] 000	[59-61] 000
c, Selection	[62-64] 000	[65-67] 000	[68-70] 000
4. UNREGULATED		[71-74] 0000	[75-78] 0015

	DATE	SIGNATURE	TITLE
PREPARED	10/25/66	JAMES W. THORNE	Forester
AUDITED	10/25/66	JAMES W. THORNE	Forester

2400-26 (6/64)

GPO 882-006

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

PERIODIC TIMBER MANAGEMENT PLANNING REPORT

REGION (3)	FOREST [4-5]	WORKING CIRCLE [6]
Southwestern 3	Sitgreaves 11	Sitgreaves Forest 1

District (2) Chevelon 1

CLASS [7]	STATE [8-9]	INVENTORY YEAR [10-11]
Hardwoods 2	Arizona 02	65

NET INVENTORY AND NET PERIODIC ANNUAL GROWTH ON NONRESERVED COMMERCIAL NATIONAL FOREST LAND

BLOCK A--CARD CODE 1

	SAWTIMBER	OTHER PRODUCTS	GROWING STOCK
1. INVENTORY: a. Local Scale *(100 MBF)*	[12-17] 000103		
b. Int. ¼" Rule *(100 MBF)*	[18-23] 000119		
c. Cubic Measure *(100 MCF)*	[24-29] 000018	[30-34] 00015	[35-40] 000033
d. Stocked Measure *(100 Cds.)*		[41-45] 0026	
2. NET GROWTH: a. Local Scale *(100 MBF)*	[46-50] 00000		
b. Cubic Measure *(100 MCF)*	[51-55] 00000	[56-59] 0000	[60-64] 00000
3. MORTALITY: Cubic Measure *(100 MCF)*	[65-69] 00000	[70-73] 0000	[74-78] 00000

AREA AND INVENTORY ON PRODUCTIVE RESERVED AND COMMERCIAL NATIONAL FOREST LAND

BLOCK B--CARD CODE 2

	PRODUCTIVE RESERVED	UNREGULATED	MODIFIED LANDSCAPE	NON-MODIFIED
1. AREA *(100 Acres)*	[12-16] 00000	[17-21] 00000	[22-26] 00003	[27-32] 000000
2. SAWTIMBER *(100 MBF)*	[33-37] 00000	[38-42] 00000	[43-47] 00055	[48-53] 000048
3. GROWING STOCK *(100 MCF)*	[54-58] 00000	[59-63] 00000	[64-68] 00018	[69-74] 000015
4. OPTIONAL SPACE	SPECIFY [75-77] 000		SPECIFY [78-] 0	

REGULATED ALLOWABLE ANNUAL CUT AND UNREGULATED MATERIAL AVAILABLE ANNUALLY

BLOCK C--CARD CODE 3

	AREA *(100 Acres)*	SAWTIMBER *(100 MBF)*	OTHER PROD. *(100 CDS)*
1. INTERMEDIATE	[12-15] 0000	[16-19] 0000	[20-23] 0000
2. SALVAGE	[24-26] 000	[27-29] 000	[30-32] 000
3. REGENERATION			
a. Group, Patch, Strip, Stand	[33-35] 000	[36-39] 0000	[40-43] 0000
b. Shelterwood, Seedtree			
(1) Preparatory, Seed	[44-46] 000	[47-49] 000	[50-52] 000
(2) Removal	[53-55] 000	[56-58] 000	[59-61] 000
c. Selection	[62-64] 000	[65-67] 000	[68-70] 000
4. UNREGULATED		[71-74] 0000	[75-78] 0009

	DATE	SIGNATURE	TITLE
PREPARED	10/25/66	JAMES W. THORNE	Forester
AUDITED	10/25/66	JAMES W. THORNE	Forester

2400-28 (6/64)
R-3 Revision 3/65

County (79-80) Coconino 03

GPO 878-637

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

PERIODIC TIMBER MANAGEMENT PLANNING REPORT

REGION (3)	FOREST [4-5]	WORKING CIRCLE [6]
Southwestern 3	Sitgreaves 11	Sitgreaves Forest 1
District (2) Heber 2	CLASS [7] Hardwoods 2	STATE [8-9] Arizona 02
		INVENTORY YEAR [10-11] 65

NET INVENTORY AND NET PERIODIC ANNUAL GROWTH ON NONRESERVED COMMERCIAL NATIONAL FOREST LAND

BLOCK A--CARD CODE 1

	SAWTIMBER	OTHER PRODUCTS	GROWING STOCK
1. INVENTORY: a. Local Scale (100 MBF)	[12-17] 000033		
b. Int. ¼" Rule (100 MBF)	[18-23] 000037		
c. Cubic Measure (100 MCF)	[24-29] 000006	[30-34] 00003	[35-40] 000009
d. Stocked Measure (100 Cds.)		[41-45] 00041	
2. NET GROWTH: a. Local Scale (100 MBF)	[46-50] 00000		
b. Cubic Measure (100 MCF)	[51-55] 00000	[56-59] 0000	[60-64] 00000
3. MORTALITY: Cubic Measure (100 MCF)	[65-69] 00000	[70-73] 0000	[74-78] 00000

AREA AND INVENTORY ON PRODUCTIVE RESERVED AND COMMERCIAL NATIONAL FOREST LAND

BLOCK B--CARD CODE 2

	PRODUCTIVE RESERVED	UNREGULATED	MODIFIED LANDSCAPE	NON-MODIFIED
1. AREA (100 Acres)	[12-16] 00000	[17-21] 00000	[22-26] 00003	[27-32] 000000
2. SAWTIMBER (100 MBF)	[33-37] 00000	[38-42] 00000	[43-47] 00024	[48-53] 000009
3. GROWING STOCK (100 MCF)	[54-58] 00000	[59-63] 00000	[64-68] 00006	[69-74] 000003
4. OPTIONAL SPACE	SPECIFY [75-77] 000		SPECIFY [78-] 0	

REGULATED ALLOWABLE ANNUAL CUT AND UNREGULATED MATERIAL AVAILABLE ANNUALLY

BLOCK C--CARD CODE 3

	AREA (100 Acres)	SAWTIMBER (100 MBF)	OTHER PROD (100 CDS)
1. INTERMEDIATE	[12-15] 0000	[16-19] 0000	[20-23] 0000
2. SALVAGE	[24-26] 000	[27-29] 000	[30-32] 000
3. REGENERATION			
a. Group, Patch, Strip, Stand	[33-35] 000	[36-39] 0000	[40-43] 0000
b. Shelterwood, Seedtree			
(1) Preparatory, Seed	[44-46] 000	[47-49] 000	[50-52] 000
(2) Removal	[53-55] 000	[56-58] 000	[59-61] 000
c. Selection	[62-64] 000	[65-67] 000	[68-70] 000
4. UNREGULATED		[71-74] 0000	[75-78] 0003

	DATE	SIGNATURE	TITLE
PREPARED	10/25/66	JAMES W. THORNE	Forester
AUDITED	10/25/66	JAMES W. THORNE	Forester

2400-28 (6/64)
R-3 Revision 3/65

County (79-80) Coconino 03

GPO 879-837

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

PERIODIC TIMBER MANAGEMENT PLANNING REPORT

REGION (3)	FOREST [4-5]	WORKING CIRCLE [6]
Southwestern 3	Sitgreaves 11	Sitgreaves Forest 1
District (2) Heber 2	CLASS [7] Hardwoods 2	STATE [8-9] Arizona 02	INVENTORY YEAR [10-11] 65

NET INVENTORY AND NET PERIODIC ANNUAL GROWTH ON NONRESERVED COMMERCIAL NATIONAL FOREST LAND

BLOCK A--CARD CODE 1

	SAWTIMBER	OTHER PRODUCTS	GROWING STOCK
1. INVENTORY: a. Local Scale (100 MBF)	[12-17] 000016		
b. Int. ¼" Rule (100 MBF)	[18-23] 000019		
c. Cubic Measure (100 MCF)	[24-29] 000003	[30-34] 00002	[35-40] 000005
d. Stocked Measure (100 Cds.)		[41-45] 0027	
2. NET GROWTH: a. Local Scale (100 MBF)	[46-50] 00000		
b. Cubic Measure (100 MCF)	[51-55] 00000	[56-59] 0000	[60-64] 00000
3. MORTALITY: Cubic Measure (100 MCF)	[65-69] 00000	[70-73] 0000	[74-78] 00000

AREA AND INVENTORY ON PRODUCTIVE RESERVED AND COMMERCIAL NATIONAL FOREST LAND

BLOCK B--CARD CODE 2

	PRODUCTIVE RESERVED	UNREGULATED	MODIFIED LANDSCAPE	NON-MODIFIED
1. AREA (100 Acres)	[12-16] 00000	[17-21] 00000	[22-26] 00001	[27-32] 000000
2. SAWTIMBER (100 MBF)	[33-37] 00000	[38-42] 00000	[43-47] 00011	[48-53] 000005
3. GROWING STOCK (100 MCF)	[54-58] 00000	[59-63] 00000	[64-68] 00004	[69-74] 000001
4. OPTIONAL SPACE	SPECIFY [75-77] 000	SPECIFY	[78-] 0	

REGULATED ALLOWABLE ANNUAL CUT AND UNREGULATED MATERIAL AVAILABLE ANNUALLY

BLOCK C--CARD CODE 3

	AREA (100 Acres)	SAWTIMBER (100 MBF)	OTHER PROD. (100 CUS)
1. INTERMEDIATE	[12-15] 0000	[16-19] 0000	[20-23] 0000
2. SALVAGE	[24-26] 000	[27-29] 000	[30-32] 000
3. REGENERATION			
a. Group, Patch, Strip, Stand	[33-35] 000	[36-39] 0000	[40-43] 0000
b. Shelterwood, Seedtree			
(1) Preparatory, Seed	[44-46] 000	[47-49] 000	[50-52] 000
(2) Removal	[53-55] 000	[56-58] 000	[59-61] 000
c. Selection	[62-64] 000	[65-67] 000	[68-70] 000
4. UNREGULATED		[71-74] 0000	[75-78] 0001

	DATE	SIGNATURE	TITLE
PREPARED	10/25/66	JAMES W. THORNE	Forester
AUDITED	10/25/66	JAMES W. THORNE	Forester

2400-26 (6/64)
R-3 Revision 3/65

County (79-80) Navajo 09

GPO 878-837

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

PERIODIC TIMBER MANAGEMENT PLANNING REPORT

REGION (3)	FOREST [4-5]	WORKING CIRCLE [6]
Southwestern 3	Sitgreaves 11	Sitgreaves Forest 1
District (2) Lake-side 3	CLASS [7] Hardwoods 2	STATE [8-9] Arizona 02	INVENTORY YEAR [10-11] 65

NET INVENTORY AND NET PERIODIC ANNUAL GROWTH ON NONRESERVED COMMERCIAL NATIONAL FOREST LAND

BLOCK A--CARD CODE 1

	SAWTIMBER	OTHER PRODUCTS	GROWING STOCK
1. INVENTORY: a. Local Scale (100 MBF)	[12-17] 000026		
b. Int. ¼" Rule (100 MBF)	[18-23] 000030		
c. Cubic Measure (100 MCF)	[24-29] 000005	[30-34] 00003	[35-40] 000008
d. Stocked Measure (100 Cds.)		[41-45] 0051	
2. NET GROWTH: a. Local Scale (100 MBF)	[46-50] 0001		
b. Cubic Measure (100 MCF)	[51-55] 00000	[56-59] 0000	[60-64] 00000
3. MORTALITY: Cubic Measure (100 MCF)	[65-69] 00000	[70-73] 0000	[74-78] 00000

AREA AND INVENTORY ON PRODUCTIVE RESERVED AND COMMERCIAL NATIONAL FOREST LAND

BLOCK B--CARD CODE 2

	PRODUCTIVE RESERVED	UNREGULATED	MODIFIED LANDSCAPE	NON-MODIFIED
1. AREA (100 Acres)	[12-16] 00000	[17-21] 00000	[22-26] 00006	[27-32] 000000
2. SAWTIMBER (100 MBF)	[33-37] 00000	[38-42] 00000	[43-47] 00022	[48-53] 000004
3. GROWING STOCK (100 MCF)	[54-58] 00000	[59-63] 00000	[64-68] 00007	[69-74] 000001
4. OPTIONAL SPACE	SPECIFY [75-77] 000	SPECIFY	[78-] 0	

REGULATED ALLOWABLE ANNUAL CUT AND UNREGULATED MATERIAL AVAILABLE ANNUALLY

BLOCK C--CARD CODE 3

	AREA (100 Acres)	SAWTIMBER (100 MBF)	OTHER PROD. (100 CDS)
1. INTERMEDIATE	[12-15] 0000	[16-19] 0000	[20-23] 0000
2. SALVAGE	[24-26] 000	[27-29] 000	[30-32] 000
3. REGENERATION			
a. Group, Patch, Strip, Stand	[33-35] 000	[36-39] 0000	[40-43] 0000
b. Shelterwood, Seedtree			
(1) Preparatory, Seed	[44-46] 000	[47-49] 000	[50-52] 000
(2) Removal	[53-55] 000	[56-58] 000	[59-61] 000
c. Selection	[62-64] 000	[65-67] 000	[68-70] 000
4. UNREGULATED		[71-74] 0000	[75-78] 0002

	DATE	SIGNATURE	TITLE
PREPARED	10/25/66	James W. Thorne JAMES W. THORNE	Forester
AUDITED	10/25/66	James W. Thorne JAMES W. THORNE	Forester

2400-28 (6/64)
R-3 Revision 3/65

Apache County (79-80) 01

GPO 878-837

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

PERIODIC TIMBER MANAGEMENT PLANNING REPORT

REGION (3)	FOREST [4-5]	WORKING CIRCLE [6]
Southwestern 3	Sitgreaves 11	Sitgreaves Forest 1
CLASS [7]	**STATE [8-9]**	**INVENTORY YEAR [10-11]**
Hardwoods 2	Arizona 02	65

District (2) Lake-side 3

NET INVENTORY AND NET PERIODIC ANNUAL GROWTH ON NONRESERVED COMMERCIAL NATIONAL FOREST LAND

BLOCK A--CARD CODE 1

	SAWTIMBER	OTHER PRODUCTS	GROWING STOCK
1. INVENTORY: a. Local Scale (100 MBF)	[12-17] 000000		
b. Int. ¼" Rule (100 MBF)	[18-23] 000000		
c. Cubic Measure (100 MCF)	[24-29] 000000	[30-34] 00000	[35-40] 000000
d. Stocked Measure (100 Cds.)		[41-45] 00000	
2. NET GROWTH: a. Local Scale (100 MBF)	[46-50] 00000		
b. Cubic Measure (100 MCF)	[51-55] 00000	[56-59] 0000	[60-64] 00000
3. MORTALITY: Cubic Measure (100 MCF)	[65-69] 00000	[70-73] 0000	[74-78] 00000

AREA AND INVENTORY ON PRODUCTIVE RESERVED AND COMMERCIAL NATIONAL FOREST LAND

BLOCK B--CARD CODE 2

	PRODUCTIVE RESERVED	UNREGULATED	MODIFIED LANDSCAPE	NON-MODIFIED
1. AREA (100 Acres)	[12-16] 00000	[17-21] 00000	[22-26] 00000	[27-32] 000000
2. SAWTIMBER (100 MBF)	[33-37] 00000	[38-42] 00000	[43-47] 00000	[48-53] 000000
3. GROWING STOCK (100 MCF)	[54-58] 00000	[59-63] 00000	[64-68] 00000	[69-74] 000000
4. OPTIONAL SPACE	SPECIFY	[75-77] 000	SPECIFY	[78-] 0

REGULATED ALLOWABLE ANNUAL CUT AND UNREGULATED MATERIAL AVAILABLE ANNUALLY

BLOCK C--CARD CODE 3

	AREA (100 Acres)	SAWTIMBER (100 MBF)	OTHER PROD. (100 CDS,
1. INTERMEDIATE	[12-15] 0000	[16-19] 0000	[20-23] 0000
2. SALVAGE	[24-26] 000	[27-29] 000	[30-32] 000
3. REGENERATION			
a. Group, Patch, Strip, Stand	[33-35] 000	[36-39] 0000	[40-43] 0000
b. Shelterwood, Seedtree			
(1) Preparatory, Seed	[44-46] 000	[47-49] 000	[50-52] 000
(2) Removal	[53-55] 000	[56-58] 000	[59-61] 000
c. Selection	[62-64] 000	[65-67] 000	[68-70] 000
4. UNREGULATED		[71-74] 0000	[75-78] 0000

	DATE	SIGNATURE	TITLE
PREPARED	10/25/66	JAMES W. THORNE	Forester
AUDITED	10/25/66	JAMES W. THORNE	Forester

2400-28 (6/64)
R-3 Revision 3/65

County (79-80) Navajo 09

GPO 878 437

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

PERIODIC TIMBER MANAGEMENT PLANNING REPORT

REGION (3)	FOREST [4-5]	WORKING CIRCLE [6]
Southwestern 3	Sitgreaves 11	Sitgreaves Forest 1
District (2) Pine-dale 4	CLASS [7] Hardwoods 2	STATE [8-9] Arizona 02
		INVENTORY YEAR [10-11] 65

NET INVENTORY AND NET PERIODIC ANNUAL GROWTH ON NONRESERVED COMMERCIAL NATIONAL FOREST LAND

BLOCK A--CARD CODE 1

	SAWTIMBER	OTHER PRODUCTS	GROWING STOCK
1. INVENTORY: a. Local Scale *(100 MBF)*	[12-17] 000000		
b. Int. ¼" Rule *(100 MBF)*	[18-23] 000000		
c. Cubic Measure *(100 MCF)*	[24-29] 000000	[30-34] 00000	[35-40] 000000
d. Stocked Measure *(100 Cds.)*		[41-45] 00000	
2. NET GROWTH: a. Local Scale *(100 MBF)*	[46-50] 00000		
b. Cubic Measure *(100 MCF)*	[51-55] 00000	[56-59] 0000	[60-64] 00000
3. MORTALITY: Cubic Measure *(100 MCF)*	[65-69] 00000	[70-73] 0000	[74-78] 00000

AREA AND INVENTORY ON PRODUCTIVE RESERVED AND COMMERCIAL NATIONAL FOREST LAND

BLOCK B--CARD CODE 2

	PRODUCTIVE RESERVED	UNREGULATED	MODIFIED LANDSCAPE	NON-MODIFIED
1. AREA *(100 Acres)*	[12-16] 00000	[17-21] 00000	[22-26] 00000	[27-32] 000000
2. SAWTIMBER *(100 MBF)*	[33-37] 00000	[38-42] 00000	[43-47] 00000	[48-53] 000000
3. GROWING STOCK *(100 MCF)*	[54-58] 00000	[59-63] 00000	[64-68] 00000	[69-74] 000000
4. OPTIONAL SPACE	SPECIFY [75-77] 000		SPECIFY [78-] 0	

REGULATED ALLOWABLE ANNUAL CUT AND UNREGULATED MATERIAL AVAILABLE ANNUALLY

BLOCK C--CARD CODE 3

	AREA *(100 Acres)*	SAWTIMBER *(100 MBF)*	OTHER PROD. *(100 CDS)*
1. INTERMEDIATE	[12-15] 0000	[16-19] 0000	[20-23] 0000
2. SALVAGE	[24-26] 000	[27-29] 000	[30-32] 000
3. REGENERATION			
a. Group, Patch, Strip, Stand	[33-35] 000	[36-39] 0000	[40-43] 0000
b. Shelterwood, Seedtree			
(1) Preparatory, Seed	[44-46] 000	[47-49] 000	[50-52] 000
(2) Removal	[53-55] 000	[56-58] 000	[59-61] 000
c. Selection	[62-64] 000	[65-67] 000	[68-70] 000
4. UNREGULATED		[71-74] 0000	[75-78] 0000

	DATE	SIGNATURE	TITLE
PREPARED	10/25/66	JAMES W. THORNE	Forester
AUDITED	10/25/66	JAMES W. THORNE	Forester

2400-26 (6/64)
R-3 Revision 3/65

County (79-80) Navajo 09

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